

Thous<sup>1820</sup> 1700. *Bowen*

*Apollo* Anglicanus,

THE

ENGLISH APOLLO,

Assisting

All Persons in the Right Understand-  
ing of this Years Revolution, as also of  
things past, present, and to come.

With necessary Tables, plain and useful.

A twofold Kalendar, viz. Julian or English,  
Gregorian or *Forain* Computations, more plain and  
full than any other; with the Rising and Set-  
ting of the Sun, the nightly Rising and Setting of the  
Moon, and also her Southing, *Exactly* calculated  
for every day. Of general use for most men.

Being Bissextile, or Leap-Year.

To which is added the Moons application to the  
fixed Stars: With the Calculation of the Eclipses: also  
Rules and Tables for the measuring of Timber: with many  
other things both pleasant, useful and necessary.

Calculated according to Art, and fitted to the Me-  
ridian of Leicester. W of Last use 1552 D gre's 41 Mi-  
nutes, *exactly* fitting all the middle Counties of England,  
and without sensible error th' whole Kingdom.

By RICHARD SAUNDER  
*Student in the Physical and Mathematical Sciences.*

LONDON Printed by M. & J. Wilde, for  
the Company of STATIONERS, 1700.

The Julian or Old Ac-  
count used in Engl.

1700

The Gregorian or New  
Stile used beyond Sea

	10	The Golden Number.		10
	10	The Dominical Letters.		10
	20	The Epact		10
February	1	Shrove-tuesday	February	21
May	3	Ascensions-day	May	20
May	15	Whit-Sunday	May	30
December	1	Advent Sunday	Novemb.	28

### A Table of the Terms and their Returns.

Hilary Term begins January 23, ends February 13.

Effoin-days.	Except.	Ret.	Brev.	Appears.
Octab. Hilary. Jan. 10	January 20	Jan. 22	Jan. 23	23
Quind. Hilary. Jan. 27	January 29	Jan. 29	Jan. 30	30
Tristin. Purif. Feb. 3	February 5	Febr. 5	Febr. 6	6
Octab. Purif. Feb. 9	February 10	Febr. 10	Febr. 12	12

Easter Term begins April 17, ends May 13.

Quind. Pasch. Apr. 10	Apr. 16	Apr. 16	Apr. 17
Tres Pasch. May 21	Apr. 23	Apr. 23	April 24
Mens. Pasch. May 29	Apr. 30	Apr. 30	May 1
Quinq. Pasch. May 06	May 7	May 7	May 1
Craft. Ascens. May 10	May 11	May 12	May 13

Trinity Term begins May 31 and ends June 19.

Craft. Trin. May 27	May 28	May 29	May 31
Octab. Trin. June 1	June 4	June 4	June 5
Quind. Trin. June 10	June 11	June 11	June 12
Tres. Trin. June 17	June 18	June 18	June 19

Michaelmas Term begins Octob. 22, ends Nov. 22.

Tres Mich. Octob. 21	Octob. 22	Octob. 22	Octob. 23
Mens. Mich. Octob. 28	Octob. 28	Octob. 29	Octob. 30
Craft. Ann. Nov. 4	Novemb. 5	Novemb. 5	Novemb. 6
Craft. Mart. Nov. 12	Novemb. 13	Novemb. 14	Novemb. 15
Octab. Mart. Nov. 18	Novemb. 19	Novemb. 20	Novemb. 21
Quind. Mart. Nov. 25	Novemb. 26	Novemb. 27	Novemb. 28

	Born Anno	Began to reign	Reigned Since their Reign Y. M	ended	Buried at
William 1	1023	1000, Oct. 14	20	1155, Septem. 9	Caen No.
William 2	1057	1087, Sep. 9	12	1160, August 2	Winchel.
Henry 1	1068	1100, Aug. 1	35	1165, Decem. 1	Reding
Stephen	1105	1135, Dec. 2	18	1154, Octob. 25	Feversh.

The Saxon Line restor'd.

Henry	2	1132	1154, Oct. 25	34	9	1171, July 6	Fountev.
Richard	1	1152	1189, July 6	37	9	1201, April 6	Fountev.
John		1165	1199, April 6	17	7	1204, Octob. 19	Worcester
Henry	3	1207	1216, Oct. 9	56	1	1228, Nov. 16	Westmin.
Edward	1	1239	1272, No. 16	34	8	1273, July 7	Westmin.
Edward	2	1283	1307, July 7	19	7	1374, Jan. 25	Gloucester
Edward	3	1312	1327, Jan. 25	51	5	1323, June 21	Westmin.
Richard	2	1326	1377, Jun. 21	22	3	1301, Sept. 20	Westmin.

The Line of Lancaster.

Henry	4	1367	1399, Sep. 29	13	6	1387, Mar. 20	Canter.
Henry	5	1386	1413, Mar. 20	9	5	1378, Aug. 31	Westmin.
Henry	6	1421	1422, Aug. 31	1	6	1379, Mar. 4	Windsor

The Line of York.

Edward	4	1442	1461, Mar. 4	22	1	1417, April 9	Winchert.
Edward	5	1471	1483, Apr. 9	0	2	1417, June 18	Not kno.
Richard	3	1448	1483, Jun. 22	2	2	1415, Aug. 22	Leicest.

The Families United.

Henry	7	1455	1485, Aug. 22	23	10	1491, April 21	Westmin.
Henry	8	1491	1509, Apr. 22	37	10	1513, Jan. 28	Windsor
Edward	6	1537	1547, Jan. 28	6	5	147, July 6	Westmin.
Qu. Mary	1	1518	1553, July 6	5	4	142, Nov. 17	Westmin.
Qu. Elizab.	1	1533	1558, No. 17	44	4	9, March 24	Westmin.

The Union of the two Kingdoms.

James	1	1506	1602, Ma. 24	22	0	81, March 27	Westmin.
Charles	1	1500	1625, Ma. 27	23	11	51, Janu. 30	Windsor
Charles	2	1630	1648, Jan. 30	36	0	15, Februar. 6	Westmin.
James	2	1533	1684, Feb. 6	1	0	11, Febr. 13	
William & Mary	3	1650	1689, Feb. 12		Whom God grant long to Reign.		
		1662			Who died Dec. 28. 1694.		

You here may see a Race of Monarchs Great,  
 When one resign'd, when t'other took the Seat.  
 Of these some mighty were in Feats of Arms,  
 Others such fam'd, admir'd for peaceful Charms.  
 The present fam'd for both, to pray now let's not cease,  
 As He was great in VVar, He may be great in Peace. *Omnis Potestas à Deo est*

A Table of the exact time of the Moon's coming to the South in Hours and Minutes, every day of the first six Months of this Year 1700.

Day	Jan.		February		March		April		May		June	
	H.	M.	H.	M.	H.	M.	H.	M.	H.	M.	H.	M.
1	5	M.01	6	M.00	5	M.39	7	M.40	7	M.12	7	M.56
2	5	49	6	49	6	28	7	44	7	54	8	40
3	6	35	7	38	7	18	8	28	8	35	9	30
4	7	21	8	28	8	08	9	12	9	18	10	26
5	8	07	9	11	9	00	9	56	10	05	11	24
6	8	55	10	03	9	48	10	40	10	55	12	26
7	9	44	10	48	10	29	11	25	11	48	1A.	18
8	10	33	11	34	11	09	12	10	12	44	2	27
9	11	23	12	19	11	49	1A.	0	1A.	42	3	24
10	12	11	1A.	02	12	30	1	52	2	44	4	18
11	12	56	1	44	1A.	18	2	48	3	40	5	10
12	1A.	4	2	28	2	08	3	45	4	38	6	00
13	2	23	3	12	2	56	4	45	5	34	6	46
14	3	04	4	00	3	46	5	47	6	25	7	32
15	3	46	4	52	4	44	6	45	7	15	8	18
16	4	30	5	48	5	2	7	38	8	03	9	09
17	5	16	6	48	6	45	8	03	8	52	10	00
18	6	04	7	49	7	44	9	20	9	42	10	51
19	7	00	8	50	8	40	10	10	10	32	11	44
20	8	00	9	50	9	36	11	00	11	22	12	33
21	9	02	10	48	10	30	11	50	12	12	0M.	33
22	10	04	11	45	11	22	12	0	0M.	12	1	20
23	11	06	12	37	12	11	0M.	40	1	06	2	07
24	12	08	0M.	37	0M.	11	1	32	2	00	2	53
25	0M.	08	1	29	1	04	2	24	2	50	3	35
26	1	04	2	20	1	56	3	15	3	34	4	16
27	2	00	3	10	2	48	4	07	4	17	4	58
28	2	52	4	00	3	40	5	00	5	00	5	40
29	3	40	4	50	4	30	5	45	5	44	6	24
30	4	27			5	22	6	28	6	28	7	13
31	5	13			6	11			7	12		



A Table of the exact time of the Moon's coming to the South in Hours and Minutes, every day of the last six Months of this Year 1700.

Days	July		August		Septemb.		October		Novemb.		Decemb.	
	H.	M.	H.	M.	H.	M.	H.	M.	H.	M.	H.	M.
1	8	M.06	9	M.48	11	M.32	12	04	1	A.26	1	A.47
2	9	04	10	49	12	24	12	56	2	21	2	36
3	10	04	11	49	1	A.16	1	A.51	3	15	3	23
4	11	06	12	45	2	09	2	45	4	06	4	06
5	12	06	1	A.40	3	00	3	40	4	55	4	47
6	1	A.04	2	32	3	53	4	38	5	40	5	28
7	2	00	3	24	4	46	5	25	6	22	6	09
8	2	56	4	14	5	39	6	14	7	04	6	50
9	3	50	5	04	6	32	7	09	7	46	7	34
10	4	40	5	54	7	22	7	43	8	30	8	20
11	5	30	6	45	8	10	8	25	9	15	9	08
12	6	18	7	36	8	56	9	07	10	00	10	00
13	7	05	8	27	9	40	9	50	10	46	10	56
14	7	55	9	17	10	22	10	33	11	34	11	58
15	8	45	10	04	11	04	11	16	12	25	12	56
16	9	35	10	50	11	46	12	04	0	M.15	0	M.58
17	10	25	11	34	12	30	0	M.04	1	22	1	56
18	11	15	12	17	0	M.30	0	54	2	23	2	53
19	12	03	0	M.17	1	15	1	46	3	12	3	43
20	0	M.03	1	00	2	03	2	40	4	17	4	35
21	0	47	1	42	2	52	2	36	5	10	5	25
22	1	31	2	25	3	45	3	34	6	02	6	14
23	2	13	3	08	4	40	4	32	6	53	7	01
24	2	55	3	55	5	36	5	27	7	44	7	52
25	3	37	4	45	6	34	6	20	8	35	8	44
26	4	21	5	38	7	32	7	12	9	26	9	35
27	5	07	6	35	8	31	8	04	10	17	10	28
28	5	55	7	35	9	26	9	56	11	08	11	23
29	6	48	8	36	10	20	10	48	12	00	12	13
30	7	46	9	38	11	14	11	40	12	45	1	07
31	8	46	10	36			12	32			1	48

To find the time of High Water in most Ports of England.

First seek the Moon's Southing on the foregoing Table for your Day, then you may conclude it High-Water at Southampton, *Winborough* and Portsmouth, for there the South and North Moons make a High-Water: But when you desire the time of Full Sea in any of the following Coasts, in the ensuing Table, find the name of the Place, and see how many Hours and Minutes be annex'd thereunto in the Column under H. M. which added to the time of the Moon's coming to the South, gives the time of High-Water at the Place required.

A Tide Table, with the Names of the Havens.

	H.	M.
Rochester, Malden, Aberdeen,	0	45
Gravesend, Romney, Ramkins,	1	30
London, Tinnmouth, Hartle-pool,	3	0
Frith, Leith, Dunbar, Narbon,	4	30
Newcastle, Falmouth, Humber,	5	15
Lyn, Antwerp, Plymouth, Hull,	6	0
Bristol, Lanion, Fouldness,	6	45
Milford, Bridg-water, North-coast,	7	30
Portland, Peterport, Hartflew,	8	51
Dover, Yarmouth, Harwich, Dublin,	10	30
Calais, Rye, Winchelsea, Calshot,	11	15

Example.

The 15th day of April, this year, it is Required to know the time of High-Water at London: By the Table of the Moons coming to the South, against April the 15th. I find the Moon South at 6 ho. 45 m. afternoon, then in the Tide-Table above, I find against London, 5 ho. 0 min. which being added to 6 ho. 45 min. makes 9 ho. 45 min. the time of High-Water at London, April the 15th. in the afternoon, so of any other.

Note, That the Tide floweth considerably more at the New and Full Moons, than at the First and Last Quarter, as also the Latitude of the Moon and Winds may alter it an hour sooner or later.

Directi-

*Directions for the subsequent Diary or Almanack.*

IN the first Column to the left hand, on the left-hand Page, you have the Numerical Figures of the days of the Month.

In the second Column you have the week days, and the Dominical Letter.

In the third Column you have the Saints days, and the places of the Planets once a Month; as also the Moons application to the fixed Stars, by which the Asterisms and Constellations may be easily known to an ingenious eye and understanding.

In the fourth Column the Moons place in the Zodiac, every day at noon.

In the fifth Column the rising and setting of the Moons with respect to her Latitude.

In the sixth Column the Mutual Aspects of the Planets with the general state of the Weather.

In the first Column on the Right-hand Page you have the English Account.

In the second Column you have the Roman Account, being now 11 days before ours.

In the third Column the Roman Week days.

In the fourth Column the perfect Roman Calendar, and Saints days.

In the fifth Column you have a discourse of the Motion of the Earth.

The sixth, seventh and eighth Columns, the utmost to the Right hand, shew you the daily Rising and Setting of the Sun.

On the top of the Left hand Page is set the New and Full Moons, with the first and last Quarters.

On the top of the Right hand Page is set the Rising, Southing and Setting of the Planets.

January hath xxxi. days.

- ☾ Last Quarter the 2 day, at 5 in the morning.  
 ● New Moon the 10 day, at 6 in the morning.  
 ☾ First quarter the 18 day, at 5 in the morning.  
 ● Full Moon the 24 day, at 8 at night.  
 ☾ Last Quarter the 31, at 8 at night.

1	a	New-year-day.	libra 13	17	00	☾ h ♂ Some frost
2	b	D n. Solca Virgi	libra 26	0	M 00	yet moderate at the
3	c	D n. Lanx Austr.	corp 9	1	10	beginning; but the
4	d	D n. Lanx Bor.	scorp. 21	2	19	☾ ♂ ♀. 4th. day
5	e	D n. Cor. Scorp.	sagitt. 4	3	24	produceth a sharp
6	f	Epiphany	sagitt. 16	4	24	Air, with some
7	g	1 Sun past Epiph.	sagitt. 28	5	20	☾ ☉ ♀. storms of
8	a	D n. ult. cap. sagit.	capri. 10	6	10	snow, & continues
9	b	Sol in A. varius	capri. 21	6	5	wind & cold; but
10	c	h x o.	aquar	5	New	about the 6th. a
11	d	☿ w 15	q a. 15	5	A 52.	thaw, with rain or
12	e	♂ m 4	aqua. 27	5	54	sleet, followed with
13	f	Hillary.	pisces 9	8	00	mists or drizzling
14	g	2 Sun past Epiph.	pisces 21	9	06	rain, & is expected
15	a	♀ = 23.	aric. 3	10	12	☾ ☉ ♂. to continue
16	b	♀ w 19	aries 16	11	1	misty, foggy &
17	c	♂ w 16	aries 29	1	2	raw weather for
18	d	D n. Man. Ber.	taur. 11	0	M. 24	ver 1 days; then
19	e	D n. Pleiades	aur. 16	1	34	follows somewhat
20	f	D n. Aldebaran.	gem. 10	2	48	hoar Frosts, inter-
21	g	3 Sun past Epiph.	gem. 25	4	00	☾ h ♀. mixt with
22	a	D n. Cast. & Pol.	canc. 10	5	08	raw mists: but to-
23	b	Term begins	canc. 25	6	08	towards the full moon
24	c	D n. Asellus	leo 10	Full	0	an increase of cold
25	d	Conver. St. Paul	leo 25	5	A. 54	is expected, with
26	e	D n. Perg. Leon.	virgo 10	7	14	some smart frosts,
27	f	D n. Cauda Leon.	virg. 24	8	31	& toward the end
28	g	Septuagesima.	libra 8	9	45	some black winds,
29	a	D n. Spica Virgi.	libra 22	10	55	bringing some
30	b	Ex. Chas. I. Mart	cor. 5	12	02	cold rain or snow
31	c	D n. Lanx Boreal	cor. 1	0	M. 02	☾ ♂ ♀.

# January 1700.

Saturn sets a little after the Sun.

Jupiter rises a little before the Sun.

Mars rises between 1 and 2 in the Morning.

Venus sets after the Sun, and about the 22d. Day is very near to Saturn.

At the beginning Mercury is Combust: At the end he riseth before the Sun.

English Accompt.  
Roman Accompt.  
Roman Calendar  
Kilian Saints day

1	1	D	Hyginus	Whether the Earth move	8	7	2	13
2	1	E	ratyrius	or stand still, hath been a	2	5		15
3	1	F	Hillary	Problem that hath much ex-		2		16
4	1	G	Belix	ercised the Wits of Astro-	4			5
5	1	A	Mauritius	nomers and Philosophers:	5	8	1	3
6	6	D	Marc Illus	The more Knowing and Ju-	6	7		1
7	17	S. P. Ep.	S. P. Ep.	dicious, have for many Rea-	7	7	8	2
8	18	D	Prisca	sons, adhered to that Hypo-	5		16	4
9	1	E	Poullan	thesis, which admits the Mo-	9	5		5
10	0	F	Fab. & Seb.	tion thereof. Others general-	1	5		7
11	21	G	Agnes	ly the Vulgar, and those who	11	5		8
12	22	A	Vlncent	are ignorant of the Grounds	12	7	50	4
13	23	H	Emerent	& Principles of Astronomy,	13	49		11
14	24	S. P. Ep.	S. P. Ep.	have rejected it, as a most	14	47		13
15	25	D	Con. St. Pau	extravagant Opinion: And	15	46		14
16	6	E	Polyca p	it hath been observed, that	16	4		16
17	7	F	J. Chrysoft.	one of the chief Objections of	17	43		17
18	8	G	Car. Mag.	such, is, That this Opinion is	18	4		19
19	9	A	Valerius	contrary to what is expressed	19	39		21
20	1	H	Adel. unl	in the Holy Scripture. This	20	7	38	4
21	21	S. P. Epiph.	S. P. Epiph.	hath occasioned many, as well	21	36		24
22	22	Bridget	Bridget	ancient & learned Divines,	22	34		26
23	23	E	Paul. Mary	as Astronomers and Philoso-	23	33		27
24	3	F	Blase	phers, to endeavour a Recon-	24	31		29
25	4	G	Gilb-rt	ciliation of such Scripture	25	7	1	21
26	5	A	Agatha	Texts, as have been alledged	26	17		33
27	6	H	Dorothy	against the Pithagorean or	27	25		35
28	7	E	Septuageli.	Copernican Hypothesis; a-	28	23		37
29	8	D	Corinthia	mongst whom were C. Baroni-	29	21		39
30	9	E	Apollon.	us, P. Antonius Foscarius, Di-	30	1		1
31	10	F	Scho-astica.	daeus a Samica, Dr. Henry More,	31	7	7	4
				Copernicus, Galilaeus, Kepler, &c.	3	7	7	4

February hath xxix days.

● N w Moon, the 9 day, at 1 in the morning.  
 ● 1st Quarter the 16 day, at 5 at night.  
 ● Full Moon the 23 day at 7 in the morning.

Mon. Day	Week Day	Festival & Saints days, with the Ds applicatio. to the noted fix'd stars.	The Ds place in zodiack at Noon	The rising fro. the full to the change, & setting fr. the cha. to the F.	The mutu. Af. of the Plan. with the var. con. of air & cha. of wea	
1	D	D n. Cor Scorpio.	agitt 11	M. 00	Moons Rising.	Windy & turbu-
2	E	Purificat. Mary.	agitt 13	2 15		lent at the begin-
3	F	D n. dex hu: cpi	agitt 25	3 12		ning; then some
4	G	Sexagesima.	capric 7	4 04		moderate frosts
5	A	h x 3.	cap i. 19	4 50	Moons Setting.	are expected; but
6	B	z v 20.	aquar. 05	36		* z ♀ towards
7	C	8 m 16.	aquar. 12	6 10		the New Moon
8	D	Sol in Pisces.	aquar. 24	6 36		windy, stormy,
9	E	9 x 24.	pisces 6	New	Moons Rising.	& turbulent wea-
10	F	9 x 8.	pisces 18	6 A. 54		her, may proba-
11	G	Quinquagesima.	aries 08	00		bl return; the
12	A	Te m Ende.	aries 13	9 06		♂ ☉ h. more
13	B	Shrove-Tuesday	aries 26	10 15	Moons Setting.	in mld, with some
14	C	Ash-Wednesday.	taurus 9	11 22		Valentine's Day.
15	D	♄ m 11.	taurus 2	12 30		light frosts, but
16	E	Aldebaran.	gemini 5	0 M. 30		soon followed with
17	F	Hum. Alhaio.	gemini 19	1 40	Moons Rising.	windy, rough, and
18	G	Quadragesima.	arce 4	2 49		☐ ♂ ♀ stormy
19	A	D n. C. ft. & Pol.	cancer 18	3 54		weather, which is
20	B	D n. A. sellu.	leo 03	4 48		expected to bring
21	C	Ember Week.	leo 18	5 32	Moons Setting.	rain, now, or feet
22	D	D n. Cor. L. enis.	virgo 3	6 06		& toward the Full
23	E	D n. Cand. Leon	virgo 18	Full		Moon some frosts,
24	F	St. Matthias.	libra 3	7 A. 17		but not of long
25	G	2 Sund. in Lent.	libra 17	8 30	Moons Rising.	continuance. Now
26	A	D n. L. nx Austr.	scorpio 9	42		we may expect va-
27	B	D n. Lanx Boreal	scorpio 14	10 56		rable & unce-
28	C	D n. Frost Scorp.	scorpio 27	12 08		stant & at the end
29	D	D n. Cor Scorpio.	agitt 9	0 M. 08		♂ h ♀ tempe-
						uous weather.



## February 1799.

Saturn goeth to Combustion, and contracts hid under the  
Sun Beams.

*Jupiter* is now a Glorious Morning-Star, and *Venus* our Glorious Evening-Star.

Mars rises betwixt 2 and 3 in the Morning.

Mercury rises a little before the Sun.

*Fenice State* Of the Motion of the  
Earth.

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© ri  
M.D.

1	11	B	Euphrasin	P	Antoni a Folcanus	7	16	4	44
2		a	Savonin	.	after having redu-	2	4		46
3	13	b	Agabus	ced the severall Objections	3	12			48
4	14	c	Sexagesim	(Valentine) into six Classes,	4	10			50
5	15	d	Faustina	thus goeth on: When any	5	8			52
6	16	e	Julia ta	thing is attributed in Holy	6	6			54
7	17	f	Dioferus	Wrie to God, or to a Crea-	7	4			56
8	18	g	Simen	ture that's not be-seeming	8	2	4		58
9	19	a	Romin	to, or incommensurate with	9	1	0	0	01
10	20	b	Milred	them, it must of necessity	10	6	58		2
11	21	c	Quinquage	be received and expounded	11	5	6		4
12	22	d	Cath. Pet.	one or more of these four	12	5	4		6
13	23	e	Shrove Tues	following ways: First, It	13	5	2		8
14	24	f	S. Matchi s.	may be said to agree with	14	5	50		10
15		g	I ven. P w	them, Metaphorically, and	15	4	8		12
16		a	Simen	proportionably, or by Similitude.	16	4	6		14
17		b	Neror	Secondly, According to	17	4	4		16
18	25	c	Quadrages.	our manner of considering,	18	4	2		18
19	March	d	David B.	apprehending, conceiving,	19	6	4		20
20	1	e	C. ddu: P.	understanding & Thirdly,	20	3			22
21	2	f	C. negund	According to the Opinion of	21	3	6		24
22	3	g	Ad ja	the vulg. r, and the common	22	3	4		26
23	4	a	Euseb us	way of speaking; to which	23	3	2		28
24	5	b	Victor	vulgar Speech the Holy Ghost	24	6	3	5	30
25	6	c	Reminiscor.	doth very often accommodate	25	2	8		32
26	7	d	Cy priaa	it self. Fourthly, In respect of	26	2			34
27	8	e	Prudent	our selves, and for that he	27	2	3		36
28	9	f	Alexander	makes himself like unto us;	28	2	1		38
29	10	g	Agapete	of each of these ways there	29	6	19	5	40
				are these Examples: God					

# March hath xxxi. days.

- 1st quarter the 1 day, at 1 in the afternoon.
- New Moon the 9 day at 6 at night.
- 1st quarter the 17 day, at 1 in the morning.
- Full Moon the 23 day, at 7 at night.
- Last Quarter the 31 day, at 8 in the morning.

1	D	David	capit. 22	1	M. 10	No. 1	Stormy at the be-
2	E	Chad	capit. 4	2	6	No. 2	Δ ⊙ ☿. ginning
3	F	Sund. in Lent	capit. 15	2	50	Rif. 6.	with some Frosts
4	G	D n. luc vu'tur.	capit. 28	3	40		* ⊙ ♃. intermix
5	A	D n. finist. Hu.	aqua. 1	4	14		followed with
6	B	D n. dext. Hu.	aqua. 21	4	44		☐ ♃. cold drif
7	C	D n. dext. Man.	pisces 3	5	10		ling rain, & about
8	D	D n. Manhab. peg	pisces 15	5	31		the New Moon
9	E	1 in Aries.	pisces 27	New			moderate weath.
10	F	Mid-Lent Sund.	aries 9	7	A. 00		Δ ☿ ♀. is expe-
11	G	D n. prim. * Ari.	aries 22	8	06	Moons setting.	* ♃ ♀. & the
12	A	D n. luc in cap. ar.	taur. 6	9	16		season being con-
13	B	D n. Pleiades	taur. 19	10	30		sidered; but about
14	C	D n. Aldebran	gem. 2	11	43		the 15 we may ex-
15	D	D n. Alhaiot	gem. 16	12	49		pect rain or snow
16	E	D n. dex hu. aurl.	gem. 29	0	M. 49		* ☿ ♀ & plen-
17	F	Sunday in Lent	canc. 13	1	48		☿ ⊙ ♀. ty there-
18	G	h x 8.	canc. 28	2	38		of, followed with
19	A	♃ w 28.	leo 12	3	20		windy and riget
20	B	♂ m 25.	leo 27	4	00		March weather,
21	C	Benedict.	virg. 11	4	35		and continu s
22	D	♀ 8 15.	virg. 25	5	5		rough, with
23	E	♀ v 10.	libra 10	Full			storms of hail,
24	F	Palm-Sunday	libra 25	7	A. 31		rain, or snow, &
25	G	Annunc. B. Mary	scorp 9	8	44		ve. y variable &
26	A	♂ 12	scor. 22	9	52		unconstant wea-
27	B	D n. Gor. Scorp.	agit. 5	11	00		☐ ♃ ♀. ther
28	C	D n. dex hu. ph.	agit. 18	12	5		is expected to
29	D	D n. Sin Man. f	capri. 0	0	M. 5		the end of the
30	E	D n. Cauda vult	capri. 12	1	00		♂ ♂ ♀.
31	F	Easter-Day.	apr. 23	1	44		month.

March 1700:

*Saturn* emergeth from the Sun-Beams, and rises before the Sun  
*Jupiter* at the beginning rises about 4 in the Morning,  
the end he rises about 2:  
*Mars* rises about Midnight, at the beginning, but at the  
end he rises about 10 at Night.  
*Venus* sets about 9 at Night.  
*Mercury* is Combuſt.

1	12	a	Gregorius	God doth not walk	Since	1	6	16	5	44
2	13	b	Euphrasia	he is infinite, he hath not		2		14		46
3	14	c	Ocun.	bodily Parts, and is void of		3		42		48
4	15	d	Lon:lon	all Passion of Mind, and yet		4		10		50
5	16	e	Horbe: t	in Sacred Scripture it is		5	6	8	5	52
6	17	f	Gertrude	said, he walked in the Cool		6		6		54
7	18	g	Edw. rd	of the Day, he walketh in the		7		4		56
8	19	a	Joseph	Circuit of Heaven, and in		8		2		58
9	20	b	Cuthbert	many Places; coming, depar-		9	6	06		00
10	21	c	Lactare	ring, making hast, is ascri-		10	5	58	6	2
11	22	d	Aph:odi.	bed unto God; and likewise		11		56		4
12	23	e	Victorin.	bodily Parts, as Eyes, Ears,		12		54		6
13	24	f	Qatrl us	Lips, Face, Voice, Counce		13		52		8
14	25	g	An. B. V. M	nance, Hands, Feet, Bowels		14		50		10
15	26	a	C stulus	Garments, Arms; and also		15		48		12
16	27	b	Io. Erem.	many Passions, as Anger, Sor-		16		46		14
17	28	c	Iudica	row, Repentance, and the like		17	5	44	6	16
18	29	d	Quintin	What shall we say therefore!		18		42		18
19	30	e	Guido	Without doubt such like At-		19		40		20
20	31	f	Balbina	tributes agree with God		20		38		22
21		g	Theodore	(to use the Schoolmens Words)		21		36		24
22	2	a	Mary Egypt	Metaphorically proportionat-		22		34		26
23	3	b	Ulpian	ly, and by Similitude: And		23		32		28
24	4	c	Palm Sund.	touching Passions, it may be		24	5	30		30
25	5	d	Vincent	said, That God condescendeth		25		27	6	32
26	6	e	Sixius	to represent himself after that		26		25		34
27	7	f	Egelippus	manner: As for instance, The		27		23		36
28	8	g	Dionysius	Lord is angry; i.e. He re-		28		21		38
29	9	a	Marcellus	vealeth himself, as one		29		19		40
30	10	b	Ezechiel	that is angry: He grieved,		30		17		42
31	11	c	Pascha	He revealed himself:		31	5	15	6	44

# April hath xxx days.

- New Moon the 8 day, at 7 in the morning.
- First quarter the 15 day at 8 in the morning.
- Full Moon the 22 day, at 5 in the morning
- Last quarter the 30 day at 2 in the morning.

1	G	D n. luc. in m.	aqua	5	2	20	Moons Rising.	Cloudy and close.
2	a	D n. lin. ou. n.	aqu	17	2	54	Moons Rising.	* h ♀. with cold
3	b	D n. dex. bra.	pisces	3	3	24	Moons Rising.	△ ♀. drizzling
4	c	D n. man. peg.	pisces	13	3	50	Moons Rising.	rain at the begin.
5	d	D n. Schéat. P.	pisces	23	4	11	Moons Rising.	ning, and so con-
6	e	D n. Algenib.	aries	6	4	32	Moons Rising.	tinues. But a-
7	f	Low Sunday.	aries	19	4	52	Moons Rising.	bout the New
8	G	D n. luc. in c. ar.	tau.	15	8	A. 26	Moons Rising.	Moon fair and
9	a	Sol in Taurus.	tau.	15	8	A. 26	Moons Rising.	☐ ☉ ♀. pleasant
10	b	D n. Pleiades	tau	29	9	36	Moons Rising.	weather is expe-
11	c	D n. Alhaiot	gem.	3	10	46	Moons Rising.	cted to begin, and
12	d	D n. Dex. hu. Au.	gem.	7	11	50	Moons Rising.	♂ ♂ ♀. so to
13	e	D n. Ca. & Pol	canc.	1	12	48	Moons Rising.	☐ h ♀. conti-
14	f	2 Sund. p. Easter.	canc.	24	0	M. 48	Moons Rising.	nue for some days;
15	G	D n. Asellus	leo	8	1	36	Moons Rising.	ow rain like, pro-
16	a	D n. Cor. Leon.	leo	23	2	12	Moons Rising.	bably some Thun-
17	b	Term begins	virgo	7	2	42	Moons Rising.	der, then for ow
18	c	h X II.	virgo	11	3	11	Moons Rising.	fair weather for
19	d	♂ o. o.	libra	5	3	40	Moons Rising.	several days: But
20	e	♂ m 20 R.	libra	10	4	4	Moons Rising.	* ☉ h. about the
21	f	3 sun. past East.	scorp	3	4	28	Moons Rising.	Full Moon some
22	G	♀ II 22.	scorp	17	4	50	Moons Rising.	showers are expe-
23	a	at George.	sagi.	0	8	A. 40	Moons Rising.	cted; the follows
24	b	♀ 8 26. R.	sagi.	13	9	4	Moons Rising.	fair and hot wea-
25	c	St. Mark.	sagit.	25	10	5	Moons Rising.	ther for several
26	d	♂ 11.	capr.	8	11	44	Moons Rising.	♂ ☉ ♂ days; but
27	e	D n. caud. vulc.	capr.	20	12	2	Moons Rising.	at the end cloudy,
28	f	4 Sun. past East.	aqua	1	M	27	Moons Rising.	close, foggy, and
29	G	D n. first. hu.	aqua.	1	1	4	Moons Rising.	rain-ike.
30	a	D n. Os Pegasi.	aqua.	25	1	34	Moons Rising.	

April 1700.

Saturn rises between 3 and 4 in the Morning.

Jupiter rises betwixt 2 and 3 in the Morning.

Mars at the end is South at Midnight.

Venus, our Glorious Evening Star, doth shine till a 11 at Night.

Mercury sets after the Sun, and may now be seen.

English Accoun.	Romain. Accoun.	Rom. Calendar.	Rom. St. days.						
1	12	D	Julius	as one that is sorrowful;	1	5	1	5	48
2	13	E	Iustinus	it repented him that he	2		10		50
3	14	F	Tiburtius	had made Man, i. e. be	3		5		51
4	15	G	Perpetua	seemed as one that Repen-	4		6		54
5	16	A	Isidorus	ted; and indeed all these	5		4		56
6	17	B	Osmond	things are, comparative	6		2	6	58
7	18	C	Quasmod	ad nos, and in respect of	7	1	C	7	60
8	19	D	Timon	us: so God is said to shew	8	1	55	7	2
9	20	E	Sulpitius	himself, to hide himself, to	9		6		4
10	21	F	Adelarius	observe and mark our steps,	10		54		6
11	22	G	Quintin	to seek us, to stand at the	11		5		8
12	23	A	St. George	door; nor that he can be	12		50		10
13	24	B	Albertus	contained in a bodily place,	13		4		12
14	25	C	Millicord.	6. Mark. nor that he is	14		46		14
15	26	D	Cletus	really moved, nor that hu-	15	4	44	7	16
16	27	E	Anastafius	mane Manners or Customs	16		42		18
17	28	F	Vitalis	can agree with him, save on-	17		4		20
18	29	G	Pet. de Mi.	ly according to our manner	18		37		21
19	30	A	Josua	of apprehension. For this Rea-	19		29		25
20	May	S. Phi. & J.	son doth the Sacred Scripture	20		35			23
21		Jubilate	express it self according to	21		34			26
22	3	D	Invent. Cru.	the vulgar Opinion, whilst it	22	4	33	7	27
23	4	E	Florianus	ascribes to the Earth, ends &	23		3		25
24	5	F	Gothard	foundations, which yet it hath	24		3		50
25	6	G	Io. Port. Lat.	not; to the Sea a Depth not to	25		25		31
26	7	A	Juvenal	be fathomed; to Death (which	26		2		34
27	8	B	Stanislaus	is a privation & consequent-	27		2		35
28	9	C	K. antio	ly a Non-entity) it appropriates	28		23		7
29	10	D	Gordian	Actions, Motions, Passions,	29		21		3
30	11	E	M. mert	and other such like Accidents	30	4	19	7	41

# May hath xxxi. days.

New Moon the 7 day, at 6 at night.

First Quart r the 14 day, at 2 in the aft. noon.

Full Moon the 21 day, at 5 in the afternoon.

Last quarter the 28 day, at 8 at night.

1	b	S. Ph. lip & Jacob.	p. i. c.	71.	M.	56	Moons Rising	Windy and dry
2	c	D n Marchab. Pe	pifors	94		18		♂ ☉ ♀. weather
3	d	D n. Agenib.	aries	12		38		is expected at
4	e	D n. Vent. Ceti.	aries	143		00		the beginning.
5	f	5 Sund. p Easter	aries	273		24		and continues fair
6	g	D n. Caud. Ari.	taur.	113		48		and pleasant; but
7	a	D n. Pl. iades	taur.	25	New	00		about the 7th. day
8	b	D n. Allectarin	gem.	98	A	38		some showers are
9	c	Ascensio. Dom.	gem.	239		48	Moons Setting	expected, yet con-
10	d	Sol in Gem. n.	taur.	713		48		Δ ☉ ♀. tinues fair
11	e	D n. Pollux.	canc.	2111		38		Δ ☉ ♀. Δ ♀ ♀.
12	f	6 Sund. p. East	leo	512		16		Δ ♀ ♀. and hoe
13	g	Term Ends.	eo	19	M	16		for the mo <sup>t</sup> part.
14	a	h ☿ 13.	virgo	30		48		About this time
15	b	♃ ☿ 1 R.	i-201	11		18		Ra n-like, yet pro-
16	c	♄ ☿ 12 R.	ibra	11		43		bably it comes not
17	d	♀ ☿ 20 00.	ibra	15		08		much, yet some
18	e	♀ ☿ 19 D.	ibra	92		34		risk Wnds, and
19	f	White Sunday	corp	123		00		about the 20th. or
20	g	♄ ☿ 9.	for	1253		28		21st. days, some
21	a	D n Cor. Scorp	fi. it.	8	Full	00		Thunder showers
22	b	Ember Week	agitt.	218	A.	36	Moons Rising	are exp <sup>d</sup> ed,
23	c	D n. Sir man. ♄.	apri.	39		30		which may possi-
24	d	D n. Cud vult.	apri.	510		16		□ ☉ ♀. bly be ve-
25	e	D n. Lu: vult.	can	127	10	56		ry welcom <sup>e</sup> Now
26	f	Trinity Sunday.	qu	91		30		follows Windy
27	g	D n. Os Pegu	qua	2111		56		♄ ♀ ♀. weather
28	a	D n. Dex Bet.	pices	312		16		et moderate; but
29	b	K. Cha. I. N. & A	pisc	150	M.	16		at the end, high
30	c	D n Algeni.	pices	70		36		and dry Winds
31	d	Term begins.	aries	20		56		



# MAY 1700.

*Saturn at the beginning rises betwixt 2 and 3 in the Morn. at the end he rises before 1 in the Morn  
Jupiter rises about Midnight. Mars is South about 11 at Night. Venus sets about 11 at Night.  
Mercury at the beginning is Conbust, at the end he rises before the Sun.*

English Account.	Roman Calendar.	Rom. Saints days	Foreign Account.	Accidents, of all which it is deprived, as also Epithets, and Adjuncts which really cannot suit with it; in the midst of the shadow of Death, the first-born of Death; Destruction and Death say, &c. And who knows not that the whole History of the rich Glutton doth consist of the like Phrases of vulgar Speech? So Ecclesiasticus, the godly Man abideth in Wisdom as the Sun, but the Fool changeth as the Moon; yet the Moon according to the real Truth of the Matter changeth not, but in respect of us, and according to the Opinion of the Vulgar. Hence it is clear that the holy Scripture speaks according to the common form of Speech used amongst the Unlearned, and according to the appearance of things, and not according to their true Existence: In like manner it is said, God made two great Lights, the greater Light	1	4	17	7	41
1	12	f	Paunat.	2	16	44			
2	13	5	Servarius	3	14	45			
3	14	1	Boniface	4	12	48			
4	15	2	Sophia	5	10	50			
5	16	3	●	6	9	51			
6	17	2	Tochetus	7	8	52			
7	18	6	Venant.	8	6	54			
8	19	5	Potentia	9	5	55			
9	20	3	●	10	3	57			
10	21	2	Helen	11	2	58			
11	22	0	Adelmus	12	1	59			
12	23	6	●	13	4	08			
13	24	0	Esther	14	3	59	8		
14	25	2	Urban	15	58	2			
15	26	5	Augustin	16	57	3			
16	27	3	Beda V.	17	56	4			
17	28	1	German	18	54	6			
18	29	0	Maximin.	19	53	7			
19	30	6	●	20	3	52	8		
20	31	0	Petronil.	21	51	9			
21		6	Pamphil.	22	50	10			
22		5	Marcel.	23	49	11			
23		3	Erasmus	24	48	12			
24		4	Petroch.	25	47	13			
25		5	Boniface	26	46	14			
26		6	●	27	3	45	15		
27		7	Paulus	28	44	16			
28		8	Medard.	29	44	16			
29		9	Barnius	30	3	44	8	16	
30		10	●	31	43	17			
31		11	●						

# June hath xxx. Days.

New Moon the 6th day at 2 in the morning.

First Quarter the 12th day at 8 at Night.

Full Moon the 20th day at 7 in the Morning.

Last Quarter the 28th day at 2 11 in the Morning.

1	e	D n. pr. * Ari.	aries	22	1	A. 16	☾ rising	Windy and Rain-
2	a	Sun. p. Ari.	taur.	5	1	55		like, but comes Δ 11
3	g	D n. Pleades.	taur.	19	2	00		☽, not much ☐ ☽.
4	a	D n. Aldebar.	gem.	3	2	38		and about the 6th
5	b	D n. Alhasiot.	gem.	17	3	30		day offering ☐ at Rain
6	c	D n. Luc. P.G.	canc.	2	4	☾		again, yet generally
7	d	D n. Cast. & Pol.	canc.	17	9	A. 28		continues dry and
8	e	D n. Afellus	leo	1	10	10		hot weather. But 2
9	f	Sun. p. Trin.	leo	16	10	46	☾ rising	bout the 10 or 11
10	g	Sol in Cancer	virgo	0	11	18		day comes ☐ ☽, cool-
11	a	St. Barnabas	virgo	14	11	43		ling Gales of Wind
12	b	D n. Vindemia.	virgo	28	12	04		are expected, and al-
13	c	D n. Spica Virg.	libra	12	0	M. 04		so about the 16th
14	d	h X 14 R.	libra	25	0	30		day, and also * ☽ ☽.
15	e	h v 29. R.	scorp.	8	0	56		Rain-like, but comes
16	f	Sun. p. Trin.	scorp.	21	1	26		not in good earnest
17	g	☽ 10 D.	sagit.	4	2	00		till about the 20th
18	a	☽ 22	sagit.	17	2	38		day, then if I mistake
19	b	Term ends	sagit.	29	3	20		☐ ☽, ☽ comes
20	c	☽ II 28.	capric.	12	Full	☾		showery weather, and
21	d	☽ III 8	capric.	24	2	A. 52	☾ rising	continues with Δ ☽
22	e	D n. L. in Man.	aqua.	6	9	30		☽. Thunder about
23	f	Sun. p. Trin.	aqua.	17	9	55		the 24th day Δ ☽ ☽
24	g	St. John. Bapt.	aqua.	29	10	21		followed Δ ☽ ☽, with
25	a	D n. Mar. Pe.	pisces	11	10	42		Mists and drizzling
26	b	D n. Scheat Pe.	pisces	23	11	02		Rain, and such like
27	c	D n. Algemb.	aries	5	11	22		weather, ☽ ☽ ☽ to
28	d	D n. Vent. Cer.	aries	17	11	42		the end.
29	e	St. Peter.	taur.	0	12	08		
30	f	Sun. p. Trin.	taur.	13	0	M. 08		

# JUNE, 1700,

English Account.    Roman Account.    Roman Calendar.    Ro. Saints days.  
 Saturn rises betwixt a 11 and 12 at Night.  
 Jupiter riseth between 10 and a 11 at Night.  
 Mars sets about 1 in the Morning.  
 Venus sets between 10 and a 11 a Night.  
 Mercury at the beginning riseth before the Sun, at  
 the end he is Consumpt.

1	12	U	Battlites	Light to rule the Day, & the	1	3	43	8	17
2	13	E	p. Trin.	lesser Light to rule the Night;	2		43		17
3	14	D	Valerius	he made the Stars also,	3		42		18
4	15	E	Vitus, &c.	which words are to be Inter-	4		42		18
5	16	F	Rufandus	preted, according to the	5		42		18
6	17	G	Rotolph	Sense of the Vulgar, and the	6		42		18
7	18	A	Marc. &c.	common way of speaking.	7		41		19
8	19	B		which is all one, as if we	8		41		19
9	20	E	p. Trin.	should say, <i>Secundum appa-</i>	9		41	8	19
10	21	D	Walburg	<i>rentiam</i> , and, <i>secundum nos</i> ,	10	3	41		19
11	22	E	Alban	<i>vel respectu nostri</i> , for al-	11		41		19
12	23	F	Basilus	though the Sun may be	12		41		19
13	24	G	St. John Bp.	reckoned amongst the grea-	13		41		19
14	25	A	Elogius	ter, the Moon may not be so	14		42		18
15	26	B	Jeremias	unless in respect of us; for	15		42		18
16	27	E	p. Trin.	amongst those that are abso-	16		42		18
17	28	D	Leo Papa	lutely greater, viz. A little	17		42		18
18	29	E	St. Peter.	less than the Sun, but far	18		43		17
19	30	F	Lurina	greater than the Moon, we	19		43		17
20	1	G	Tr. Sirich	may enumerate Saturn, and	20	3	44	8	16
21	2	A	Visit V.M.	several fixed Stars of the	21		44		16
22	3	B	Cornelius	first Magnitude, such as Ca-	22		44		16
23	4	E	p. Trin.	nopus, The little Dog, The	23		45		15
24	5	D	Anselm	Star in the great Dog's	24		45		15
25	6	E	Tranquil	Mouth, The foot of Orion	25	3	46	8	14
26	7	F	Demetrius	called Rigel, his right Shoul-	26		47		13
27	8	G	Grimbald	der, and other of that Mag-	27		48		12
28	9	A	Cyriacus	nitude. Therefore the two	28		49		11
29	10	B	Sept. Frat.	great Lights are to be un-	29		50		10
30	11	E	p. Trin.		30	3	51	8	9

- New Moon the 5th day at 9 in the morning.
- First Quarter the 12th day at 1 in the morning.
- Full Moon the 19th day at 2 1/2 at night.
- Last Quarter the 27th day at 2 1/2 at night.

18	● n. Pleiades	taur.	27	0	M 40	Moons rising	Some Showers are expected at the Δ beginning after wards & M Q windy and hot, yet moist Air, then follows fair and hot weather & ☉ M for several days, and no great alteration is expected till the 12th or 13th days, which may probably produce some ☉ ☉ Thunder followed with Mists, & h q or drizzling Rain, also some Showers are expected about the 19th day, and drizzling Rain following, then fair and good weather is expected for several days, and probably no great alteration, (except some misty or * & ☉ drizzling & h q Mornings) to the end of the Month.	
28	● n. Aldebaran	gem.	11	1	20			
38	● n. Dext. Hn. A.	gem.	26	2	05			
48	● n. Castor & P.	canc.	10	3	00			
58	● n. Procyon.	can.	25	4	00			
68	● n. Alcellus	leo	10	8	A 04			
78	● n. p. Tri.	leo	25	9	16			
88	● n. Terg. Leo.	virgo	10	9	44			
98	● n. Claud. Leo.	virgo	24	10	12			
108	● n. Vindemia.	libra	8	10	40			
118	● n. Spica Urio.	libra	22	11	6	Moons rising		
128	● n. La. Rowal.	scorp.	6	11	32			
138	● n. La. Rowal.	scorp.	19	12	00			
148	● n. p. Tri.	sagit.	1	00	M 00			
158	● n. p. Tri.	sagit.	14	00	32			
168	● n. p. Tri.	sagit.	20	1	14			
178	● n. p. Tri.	capr.	2	2	10			
188	● n. p. Tri.	capr.	20	3	22			
198	● n. p. Tri.	aqua.	2	4	00			
208	● n. p. Tri.	aqua.	14	7	A 55			Moons rising
218	● n. p. Tri.	aqua.	26	8	19			
228	● n. p. Tri.	pisces	8	8	42			
238	● n. Mar. Peg.	pisces	20	9	06			
248	● n. Algenib.	aries	2	9	30			
258	● n. p. Tri.	aries	14	9	54			
268	● n. Pr. * Ari	aries	26	10	18			
278	● n. Manker	taur.	9	10	42			
288	● n. p. Tri.	taur.	21	11	10			
298	● n. Aldebar.	gem.	5	11	50			
308	● n. Alhaiot	gem.	19	12	40			
318	● n. Luc. P. G.	canc.	3	0	M 40			

# JULY, 1700.

**English Account.** **Roman Account.** **Roman Calendar.** **Roman Saints days.** Saturn at the beginning is South betwixt 3 and 4 in the morning, at the end he is South before 2 in the morn. Jupiter is South about Midnight. Mars sets between 11 and 12 at Night. Venus sets about 9 at Night. Mercury at the beginning is under the Sun-beams. at the end he sets after the Sun.

1	12	Nabor	derstood in respect of us, and	1	52	8	9
2	13	Henricus	according to the vulgar E-	2	53		7
3	14	Bonavent	stimation, and not accord-	3	54		6
4	15	Swithin	ing to the true real Existence	4	55		5
5	16	Kenelm	of such Bodies : He proceeds	5	56		4
6	17	Hilarius	further to consider why the	6	58		2
7	18	P. Tru	Sacred Scripture doth so stu-	7	59	8	1
8	19	Ruffinus	diously comply with the O-	8	60	8	00
9	20	Margaret	pinion of the Vulgar, & why	9	61	7	59
10	21	Praxed	it doth not rather accurately	10	62	7	57
11	22	Mary Mag	instruct Men in the Truth of	11	63		55
12	23	Apollin	the Matters and the Secrets	12	64		54
13	24	Christians	of Nature, and after several	13	65		53
14	25	P. S. Tru	Reasons given, too many	14	66		51
15	26	S. James	here to enumerate, he	15	67	10	7
16	27	Martha	goes on, The Wisdom of God	16	68	11	49
17	28	Panthal	revealed to us in sacred	17	69	12	48
18	29	Beatrix	Leaves, is not stiled Wisdom	18	70	14	46
19	30	Abdon	only, but saving Wisdom ;	19	71	16	44
20	31	German	its only end being to lead us	20	72	17	43
21		P. S. Tru	to Salvation. And St. Paul	21	73	19	41
22	2	Moses	to the Corinthians faith, I	22	74	20	7
23	3	Dominic	determine to know nothing	23	75	22	38
24	4	Aristarch	among you, save Jesus Christ,	24	76	24	36
25	5	Fest. Nivis	and him Crucified, whereas	25	77	25	35
26	6	Sixtus	notwithstanding he was tho-	26	78	27	33
27	7	Afra	roughly instructed, and pro-	27	79	29	31
28	8	P. S. Tru	foundly learnt in all human	28	80	31	29
29	9	Romanus	Sciences, but his desire was	29	81	33	27
30	10	Lawrence	on'y to teach them the way	30	82	35	25
31	11	Tiburnius		31	83	37	23

# August hath xxxi Days.

- New Moon the 3d day at 5 at night.
- First Quarter the 10th day at noon.
- Full Moon the 18th day at 2 in the afternoon.
- Last Quarter the 26th day at 10 in the morning.

1	c	Lammas	canc.	18	1	M	39		Showery weather
2	d	☾ n. Acellus	leo	14	2		30		☽☽ is expected at
3	e	☾ n. Cor. Leo	leo	19		New		☾	the beginning, and
4	f	☿ Sun. p. Tri.	virgo	4	7	A	44		continues for some
5	g	☾ n. Cand. Le.	virgo	19	8		10		days, then windy wea-
6	a	☾ n. Vindemi.	libra	4	8		36		ther followeth. ☽☽
7	b	☾ n. Spica Vir.	libra	18	9		04		and then fair for
8	c	☾ n. Lanx Au.	scorp.	29	9		33		some days. But a-
9	d	☾ n. Lanx Bo.	scorp.	15	10		4		bout the 10th day
10	e	☾ n. Latonce	scorp.	28	10		38		some Storms are ex-
11	f	☿ Sun. p. Tri.	sagit.	11	11		16		pected, afterward 'tis
12	g	Sol in Virgo	sagit.	21	12		10		hoped we may have
13	a	☿ ☿ 11 R	capr.	5	0	M	10		fair weather for seve-
14	b	☿ ☿ 22 R	capr.	17	0		50		ral days, but about
15	c	☿ ☿ 4	capr.	29	1		44		the 17th day ☽☽
16	d	☿ ☿ 12 R	aqua.	11	2		40		some drifling ☽☽
17	e	☿ ☿ 00	aqua.	2	3		41		Rain, and showers,
18	f	☿ ☿ Sun. p. Tri.	pifces	5		Full		☾	which being past,
19	g	☿ ☿ 4	pifces	17	7	A	15		then fair weather is
20	a	☾ n. Algenib	pifces	29	7		37		expected. ☽☽ yet
21	b	☾ n. Vent. Ce.	aries	11	8		00		with ☽☽ now and
22	c	☾ n. pri. ☿ Ari.	aries	23	8		24		then ☽☽ some
23	d	☾ n. Manker	taur.	5	8		48		cold drifling, else no
24	e	St. Bartholom.	taur.	18	9		15		great alterations ☽☽
25	f	☿ ☿ S. p. Tri.	gem.	19			52		till the end of the
26	g	☾ n. Alhaiot	gem.	15	10		40		month, which is ex-
27	a	☾ n. Luc. P. G.	gem.	29	11		35		pected to produce
28	b	☾ n. Cast. Poll.	canc.	13	12		35		both Wind and drif-
29	c	☾ n. Acellin.	canc.	27	0	M	35		ling Rain.
30	d	☾ n. A. in C. L.	leo	12	1		44		
31	e	☾ n. Cor. leonis	leo	27	3		02		

Moons setting.

Moons rising.



# AUGUST, 1763

**English Account.** Saturn is South about Midnight. Jupiter at the beginning is South about 10 at Night, at the end he is South between 8 and 9. Mars sets about 10 at Night. Venus goeth towards the end to Conjunction, and continues hid under the Sun-beams, Mercury sets after the Sun.

Roman Calendar.	Rom. Saints days.	English Account.
1 12 g	Clara V.	to Heaven; hence God speak-
2 13 a	Hippolitus	ing by <i>Mosch.</i> Chap. 48. v.
3 14 b	Eusebius	17. faith, <i>Ego Dominus Deus</i>
4 15	10 S. p. T.	<i>docens te utilia</i> , I am the
5 16 d	Rochus.	Lord thy God, which teach-
6 17 c	Agapitus	eth thee profitable things;
7 18 f	Helena	whence the Glossary addeth,
8 19 g	Clinton R.	<i>non subtilia</i> , nor Subtilities;
9 20 a	Bernard	for God neither taught us
10 21 b	Privatus	whether the <i>dia-crisis prima</i> ,
1 22	11 S. p. T.	of Heaven, and the Elements
2 23 d	Zachæus	be the same, nor whether
3 24 c	St. Bartho	Continual be Composed of
4 25 f	Ludovicus	Indivisi-les, or whether it be
5 26 g	Leverin.	divisible in <i>infinitum</i> , nor
6 27 a	Rossus	how many, the celestial
7 28 b	Augustin	Spheres are, whether there
8 29	12 S. p. T.	be Epicycles, or Excentricks,
9 30 d	Felix.	nor the Motion and Influe-
10 31 e	Paulinus	ence of the Planets, nor the
1 1	Ægidius	Order of the Universe,
2 2 g	Anthony	but only ( <i>utilia</i> ) profitable
3 3 a	Mamert	things, to wit his holy Law,
4 4 b	Theodosia	&c. Agreeable to this is the
5 5	13 S. p. T.	saying of Cardinal Baronius,
6 6 d	Magnus	as Quoted by Galileus, <i>Spi-</i>
7 7 c	Regina	<i>ritui sancto mentem fuisse</i> ,
8 8 f	Nat. V.M.	<i>nos docere, quomodo ad Calum</i>
9 9 g	Gorgon	<i>eat, non autem quomodo</i>
10 10 a	Sosthenes	<i>Calum gradatur</i> ; the In-
1 11	Felix	B 4 sen-

# September hath xxx Day.

- New Moon the 10 day at 1 in the morning.  
 First Quarter the 9th day at 1 in the morning.  
 Full Moon the 19th at 7 in the morning.  
 Last Quarter the 24th day at 10 at Night.

1		virgo	12	4	M	17	Windy and drif-
2	g	D n. Vindemi.	virgo	27			ling at the begin-
3	a	D n. Spica Vir.	libra	12	7	A	ning, $\Delta$ $\odot$ $\mu$ then
4	b	D n. Lanx Au.	libra	26	7		fair for some days.
5	c	D n. Lanx Bor.	scorp.	11	8		$\odot$ $\odot$ $\odot$ and about
6	d	D n. Sin. M.O.	scorp.	24	8		the 6th day some
7	e	D n. Cor. Scor.	fagit	7	9		brisk Winds are ex-
8		<del>12 S. 9</del> Triu	fagit	20	10		pected, then follows
9	g	H X 9 R	capric.	2	10		showery weather for
10	a	W Y 22 D	capr.	14	11		some $\square$ $\odot$ $\odot$ days,
11	b	<del>21</del> 21	capr.	26	12		with Wind and plen-
12	c	<del>21</del> 21	aqua.	8	0	M	ty of Rain about
13	d	Q ny 1. S. ad. D	aqua.	20	1		the 13th or 14th
14	e	Q ny 1. S. ad. D	pisces	2	2		days, and continues
15		<del>21</del> 21	pisces	14	3		showery till after the
16	3	Q ny 3.	pisces	26	4		full Moon, then 'tis
17	4	r Cbl . nneig	aries	8			hoped we may have
18	0	C n. Manke A	aries	20	6	A	fair weather for se-
19	c	<del>21</del> 21	taur.	3	7		veral days, and $\Delta$
20	d	D n. Cand. Ar	taur.	15	7		$\mu$ $\odot$ probably no
21	e	<del>21</del> 21	taur.	28	7		great alteration, but
22		2 S. 9 Triu	gem.	12	8		now and then some
23	g	D n. dex. hu. Au.	gem.	25	9		foggy Mornings) till
24	a	D n. Cast. & Pol.	canc.	8	10		the 28th, or 29th
25	0	D n. Perigon.	canc.	22	11		days, which are ex-
26	c	D n. Asellus	leo	7	12		pected to bring wind
27	d	D n. Cor. Leon	leo	21	0	M	and $\square$ $\odot$ $\odot$ drif-
28	e	D n. Tern. Leo	virgo	6	2		ling.
29		<del>21</del> 21	virgo	21	3		
30	g	D n. Vindemi.	libra	5	4	A	

Moons setting.

Moons rising.

Saturn at the beginning is South between 11 and 12, at the end is South between 9 and 10 at Night. Jupiter sets about 11 at Night. Mars sets about 9 at Night. Venus emerges from under the Sun beams, and about the middle of the Month rises about 2 in the Morning. Mercury is Combuſt.

English Account.  
Roman Calendar.  
Roman Saints days

12		Amatus	to teach us how we shall go	1	5	38	6	22
13	0	Exal crucis	to Heaven, and not how	2		40		20
14	0	Nicomed.	Heaven goeth. And Kepler	3		42		18
15	5	Edith	in his Treatise, Entituled	4		44		16
16	3	Lambert	his Introduction upon	5		46		14
17	2	Fereolus	Mars. It muſt be confeſ-	6		48		12
18	4		ſed, that there are very ma-	7	5	50	6	10
19			ny who are Devoted to Ho-	8		52		8
20	0	Gauſa.	lineſs, that diſſent from the	9		54		6
21	1		judgment of Copernicus,	10		56		4
22	6	Murinus	fearing to give the Lie to	11	5	58	6	2
23	3	Tecla Virg.	the holy Ghoſt, ſpeaking in	12	6	00	6	00
24	1	Rupertus	the Scripture, if they ſhould	13		2	5	58
25	0	Cleophas	ſay that the Earth moveth,	14		4		56
26			and the Sun ſtands ſtill. But	15		6		54
27	0	Col. & Dams	let ſuch conſider, that ſince	16		8		52
28	0	Wencella.	we judge of many, and	17		10		50
29	6		theſe the moſt principal	18		12		48
30	0	Hierom.	things. by the Senſe of ſeeing	19		14		46
1	0	Remigius	it is impoſſible that we	20	6	16	5	44
2	2	Leodegar	ſhould alienate our Speech	21		18		42
3			from the Senſe of our Eyes,	22		20		40
4	0	Francis	therefore many things dai-	23		22		38
5	0	Conſtance	ly occur, of which we ſpeak	24		24		36
6	6	Fides	according to the Senſe of	25	5	26	5	34
7	3	Marcus, &c.	Sight. When as we certain-	26		28		32
8	1	Pelagia	ly know that the things	27		30		30
9	0	Dionyſius	themſelves are otherwiſe.	28		32		28
10				29		34		26
11	0	Burchard		30	6	36	5	24

# October hath xxxi Days

- New Moon the 1st day at 10 in the morning.
- First Quarter the 8th day at 7 at night.
- Full Moon the 16th day at 10 at night.
- Last Quarter the 24th day at 2 in the morning.
- New Moon the 30th day, 30 min. past 9 at night.

1	n. Spica Virg	libra 20	New	●	Moons setting.	Some drifting the first 8 h of day, then cold winds, and dry weather is expected ☐ ☉ 14 for * 8 some days and 'tis hoped that moderate, and good weather may continue, only ☐ 14 some drifting about the 11th or 12th day, else no great alteration till about the full Moon, then both Wind and Rain is expected, and continues hot & dry Δ ☉ h for some Δ h of time with ☉ ☉ ☉ brisk Winds also, but it is hoped that after the Δ ☉ ☉ last quarter the weather may be more moderate, and that it may continue till the end, which produceth ☉ ☉ sharp * ☉ ☉ Winds.
2	n. lanx Aust.	scorp. 6	A	17		
3	n. lanx Bor.	scorp. 19		46		
4	n. Cor. Scor.	sagit. 7		23		
5	n. Dex. G.O.	sagit. 15		05		
6	n. S. p. Trin.	sagit. 28		55		
7	n. Can. vult.	capr. 11		50		
8	n. Luc. vult.	capr. 23		45		
9	☉ 7 R	aqua. 1		40		
10	☉ 23	aqua. 16		40		
11	☉ 11.	aqua. 28	M	40	Moons rising.	
12	Solan. Scorpio	pisces 10		53		
13	☉ 16	aries 4		34		
14	☉ 29	aries 16		00		
15	☉ 1	aries 25		00		
16	n. Manker	taur. 17	A	37		
17	St. Luke	taur. 25		07		
18	n. Aldebar.	gem. 8		44		
19	☉ 16	gem. 22		7		
20	n. Luc. P. G.	canc. 5		8		
21	n. Cast. & Pol.	canc. 19		9	New	
22	Term. Begins	leo 3		10		
23	n. Cor. leon	leo 17		11		
24	Crisoin	virgo 1		1		
25	n. Terg. Leo.	virgo 15	M	10		
26	☉ 22 S. p. Trin.	virgo 29		2		
27	☉ 16	libra 14		3		
28	n. Lanx Au	libra 29		5		
29	n. Lanx Bor.	scorp. 13				
30	n. Cor. hor.	scorp. 27				
31			A	20		

# OCTOBER, 1700

Saturn is South between 8 and 9 at Night, and sets between 1 and 2 in the Morning. Jupiter sets between 9 and 10 at Night. Mars at the end sets with Jupiter about 9 at Night. Venus rises between 2 and 3 in the Morning. Mercury at the beginning rises before the Sun, toward the end he is Comb.

English Account.  
Romain Account.  
Romain Calendar.  
Romain Saints days

1	12	e	Colman	An Example whereof we	16	38	522
2	13	f	Telemach	have in Virgil, who brings	2	40	20
3	14	g	Calixtus	in <i>Aneas</i> , saying, <i>proverbi-</i>	3	43	18
4	15	1	Hedwig	<i>mur portu, Terraque u bafq;</i>	4	44	16
5	16	b	Galtus	<i>recedunt.</i> So when we come	5	46	14
6	17	c	19 p. Tr	forth of the narrow Straight	6	48	12
7	18	d	St. Luke	of fome Valley, we say that	7	50	10
8	19	e	Prolomcy	a large Field discovereth it	8	52	8
9	20	f	Wendelin	self So Christ to St. Peter,	9	54	6
10	21	g	Cordula	<i>Duc in altum</i> , lanch forth	10	56	4
11	22	a	Severus	into the deep or on high, as	11	58	2
12	23	b	Roman	if the Sea was higher than	12	7 00	5 00
13	24	c	20 p. Tr	its Shores; for so it seemeth	13	7 24	58
14	25	d	Crispin	to the Eye. But the Opticks	14	4	56
15	26	e	Amandus	(shew the cause of this Fal	15	6	54
16	27	f	Ursula	lacy, yet Christ useth the	16	8	52
17	28	g	St. St. & Lu	most received Speech, altho'	17	10	50
18	29	a	Narcissus	it proceed from this Delusi	18	12	48
19	30	b	German	on of the Eyes, much more	19	14	46
20	31	c	21 p. Tr	he hath said upon this Mat-	20	7 16	4 44
1	1	d	Nov. All Saints	ter, for which here is not	21	18	42
2	2	e	All Souls	room, but he thus concludes.	22	20	40
3	3	f	Theophilus	And I also beseech my Rea-	23	22	38
4	4	g	Amantins	der, not forgetting the di-	24	24	36
5	5	a	Petronel	vine Goodness conferred on	25	7 24	4 34
6	6	b	Leonard	Mankind; the Consideration	26	28	32
7	7	c	27 p. Tr	of which the <i>Psalmist</i> doth	27	30	30
8	8	d	Claudius	chiefly urge, that when he	28	32	28
9	9	e	Theodore	returneth from the Temple,	29	34	26
10	10	f	Martin P.	and enters into the School	30	36	24
11	11	g	Martin Ep	of	31	7 33	4 22

# November hath six Days.

First quarter the 7th day at 4 in the afternoon.

Full Moon the 15th day at noon.

Last quarter the 22d day at 2 1/2 in the morning.

New Moon the 29th day at noon.

1 D	All Saints	sagit.	10 6	A 00	Moons Setting.	* ♂ ♀ fair and
2	All Souls	sagit.	23 9	44		frosty at the begin-
3	Sun. p. Trin.	capr.	6 7	34		ning, then follow
4 G	D n. Luc. vlt.	capr.	19 8	30		high Winds, bring
5 I	St. Andrew	aqua.	1 9	28		ing cold Rain, Snow
6 U	D n. Sin. Ham.	aqua.	12 10	29		or Sleet, and contin
7 C	h. 7 D	aqua.	24 11	32		ues windy and ☐
8 D	h. 27	pisces	6 12	35		h. ♀ stormy wea-
9	♂ 3	pisces	18 0	M 35		ther, * ☉ h then
10	♂ 3	aries	0 1	40		follows close and fog-
11 G	♂ in Sagittar.	aries	12 2	45	Moons Rising.	gy weather. ☐
12 A	♀ 15	aries	25 3	50		rima we day Now
13 U	♀ 15	taur.	8 4	56		expect some Frost
14 C	♂ m. o. o.	taur.	21 6	02		and about the * ♀
15 D	D n. Aldebar.	gem.	4			15th day Snow, m
16 E	D n. Athaioz.	gem.	18 5	A 25		cold Rain then frosty
17	♂ 5 p. Trin.	canc.	2 6	16		again for some days
18 G	D n. Cast. & Po.	canc.	16 7	16		* ☉ h then high
19 A	D n. Procyon	canc.	29 8	24		wind and moisture
20 U	D n. Afellus.	leo	14 9	36		is expected, after
21 C	D n. Cor. leonis	leo	28 10	50	Now	which close foggy
22 D	D n. Caud. leon.	virgo	12 12	5		weather follows for
23 E	D n. Vindem.	virgo	26 0	M 05		some days, then some
24	♂ Sun. p. Trin.	libra	10 1	20		light Frosts, but a-
25 G	D n. Spi. Virg.	libra	24 2	36		bout the 27th day
26 A	D n. Lanx Aust.	scorp.	8 3	50		sharp Winds, ☐
27 U	D n. Lanx Bor.	scorp.	22 5	06		with black * ☉
28 C	♂ 8	sagit.	5 6			Frosts, and * h
29 D	D n. Dex. H. O.	sagit.	18			continues Frosty
30	St. Andrew	capr.	1 5	A 16		the end.



# NOVEMBER, 1700.

*Saturn at the beginning is South between 7 and 8 at Night, sets a little after midnight, at the end he sets between 10 and 11 at Night. Jupiter sets about 8 at Night, and Mars sets a little after him. Venus rises betwixt 3 and 4 in the Morning. Mercury sets a little after the Sun.*

**Roman Calendar**  
**Roman Account.**

1	2	a	Cunibert	of Astronomy, he would with	1	7	39	4	2
1	3	b	Brice	me praise and admire the	2		41		19
1	4	c	213. p. 2	Wisdom and Greatness of	3		43		17
1	5	d	Leopold	the Creator, which I disco-	4		45		15
1	6	e	Othmarus	ver to him by a more nar-	5		46		14
1	7	f	Hugo	row Explication of the	6		48		12
1	8	g	Oct. Marr.	world's Form, the Disquisi-	7		49		11
1	9	a	Elizabeth	tion of Causes, and Detecti-	8		51		9
1	10	b	Eugenius	on of the Errors of Sight.	9		52	4	8
1	11	c	245. p. Tr	And so he will not only ex-	10	7	54		6
1	12	d	Cocilia	tel the Bounty of God in the	11		55		5
1	13	e	Clement	Preservation of living Crea-	12		57		3
1	14	f	Chrisogon	tures of all kinds, and Esta-	13	7	58		2
1	15	g	Catherin	blishment of the Earth; but	14	8	59	4	00
1	16	a	Conradus	even in its motion also.	15	8	1	3	59
1	17	b	Agricola	which is so strange, so ad-	16		3		57
1	18	c	Adrens	mirable, he will acknow-	17		4		56
1	19	d	Saturn	ledge the Wisdom of the	18		6		54
1	20	e	2. Andren	Creator. But he who is so	19		7		53
1	21	f	Longinus	Stupid as not to comprehend	20	8	8	3	52
1	22	g	Libanus	the Science of Astronomy, or	21		9		51
1	23	a	Cassian.	so weak and scrupulous, as	22		10		50
1	24	b	Barbara	to think it an Offence of	23		11		49
1	25	c	2. S. Andren	Piety to adhere to Coperni-	24		12		48
1	26	d	Nicholas	cus, him I advise, that lea-	25	8	13	3	47
1	27	e	Agath. M.	ving the Study of Astrono-	26		14		46
1	28	f	Con. V. M.	my, and censuring of the	27		15		45
1	29	g	Cyprian	Opinions of Philosophers as	28		15		44
1	30	a	Miltiades	pleasure, he betake himself	29		16		43
1	31	b	Damasus		30	3	18	16	44

# December hath xxxv Days.

- First Quarter the 7th day at 2 in the afternoon.
- Full Moon the 15th day at 10 in the morning.
- Last Quarter the 21st day at 8 at night.
- New Moon the 29th day half an hour after 5 in the morning.

1st	Advent Sunday	capr.	14	6	A	6		Frothy, yet cloud
2d	St. n. Luc. vult.	capr.	26	7		00		and close weather
3d	St. n. L. in M.	aqua.	9	8		3		Δ  and about the
4th	St. n. Sin. Hum.	aqua.	20	9		5		4th day yielding
5th	St. n. Dex. Br.	pisces	2	10		7		with Rain, Snow, or
6th	St. n. March. Peg.	pisces	14	11		9		Sleet, with wind, and
7th	St. n. Caed. Cet.	pisces	26	12		12		continues raw and
8th	St. Sun. Advent	aries	8	0	M	12		molt for several
9th	St. n. Pr. Ariath	aries	20	1		7		days, with now and
10th	St. n. Manker	taur.	3	2		22		the    some
11th	St. n. in Capricorn	taur.	16	3		28		cold Storms, inter-
12th	St. n. Pleiades	taur.	29	4		38		mixt with Frosts of
13th	St. n. Aldebaran	gem.	13	5		50		short continuance
14th	St. n. Alhaiot	gem.	27	7		00		with wind and mol-
15th	St. Sun. Advent	canc.	13	8	ull			ture about the 15th
16th	St. n. Procyon	canc.	25	6	A	00		day, now follow
17th	St.   9	leo	10	7		08		sharp frost, air, and
18th	St. Amber Week	leo	24	8		24		continues
19th	St.   6	virgo	9	9		38		mostly for some days
20th	St.   4	virgo	23	10		52		now yielding
21st	St. Thomas	libr.	7	12		08		*   with Rain
22nd	St. Sun. Advent	libr.	21	0	M	08		Snow, or Sleet, *
23rd	St.   2	scor.	4	1		24		and continues
24th	St.   7 R	scor.	18	2		40		windy and stormy
25th	St. Natly. Chas.	sagit.	1	3		54		with plenty of mo-
26th	St. Stephen	sagit.	14	5		00		sture, now foggy
27th	St. John	sagit.	28	6		04		weather, *
28th	St. Innocents	capr.	10	7		02		and at the
29th	St.   27	capr.	23	8	New			end we may
30th	St. n. Luc. in M.	aqua.	5	5	A	36		expect tempestuous
31st	St. n. St. Hum.	aqua.	19	6		16		weather.

Moons setting.

Moons rising.

# DECEMBER, 1700.

**Roman Calendar**  
**Foreign Account**  
**English Account**  
**Roman Saints days**  
**Saturn** at the beginning sets about 10, at the end he sets between 8 and 9 at Night. **Jupiter** sets about 7 at Night. **Mars** sets about 9 at Night. **Venus** rises betwixt 4 and 5 in the Morning. **Mercury** at the beginning sets a little after the Sun, but towards the end he is Combust.

1	12	e	Advent	to his own Concerns, and to	18	17	3	43
2	13	d	Lucia V.	desisting from further pursuit of	2	17		43
3	14	e	Nicabus	these Intricate Studies he kept	3	18		42
4	15	f	Abraham	at home, and manure his own	4	18		42
5	16	g	Ananias	Ground, and with those Eyes	5	18		42
6	17	a	Lazarus	wherewith alone he seeth, being	6	18		42
7	18	b	Bernardus	elevated towards this to be ad-	7	19		41
8	19	c	Advent	mi red Heaven, let him pour forth	8	19		41
9	20	d	Annon	his whole Heart in Thanks and	9	19		41
10	21	e	St. Thomas	Praises to God the Creator, and	10	19		41
11	22	f	30 Mart.	assure himself that he shall	11	19	3	41
12	23	g	Victor	therein perform as much Wor-	12	19		41
13	24	a	Adam & E.	ship to God, as the Astronomer,	13	19		41
14	25	b	Christmas	on whom God hath bestowed	14	18		42
15	26	c	St. Stephen	this Gift, that though he seeth	15	18	3	42
16	27	d	St. John	more clearly with the Eye of Un-	16	18		42
17	28	e	Innocents	derstanding; yet whatever he	17	17		43
18	29	f	Jonathan	hath attained to, he is both a-	18	17		43
19	30	g	David	ble and willing to exalt his	19	16		44
20	31	a	Silvester	God above it.	20	16	3	44
21	1	b	Circumcis	As touching the Opinion of	21	15		45
22	2	c	Abel	the Saints about these Points he	22	15		45
23	3	d	Enoch	answers, That in Theology, the	23	14		46
24	4	e	Methusal.	Weight of Authority, but in	24	13		47
25	5	f	Simcon	Philosophy the Weight of Rea-	25	13	3	47
26	6	g	Epiphany	son is to be considered. There-	26	12		48
27	7	a	Julian	fore sacred wa. Lactantius, who	27	11		49
28	8	b	Erhardus	denied the Earth's Roundity	28	10		50
29	9	c	S. p. Ep.	sacred was Augustin, who allow-	29	9		51
30	10	d	Agathon	ed the Earth to be round, but	30	8	3	52
31	11	e	Hyginus	denied the Earth's Roundity	31	7		53

**A TABLE** shewing how many Years purchase a Lease or Annuity (to endure for any number of Years under 33) is worth presently, at Interest upon Interest, at Six in the Hundred; and shewing plainly how to discount any Lease in being, and the value of the Reversion after any number of Years.

The Use and Explanation of the TABLE.			
The first Column towards the left Hand sheweth the Years of a Lease, or Annuity, and right against each Year, is the Years, Months, and Tenth Parts of a Months purchase, that such a Lease or Annuity is worth. Example: Suppose a Lease or Annuity to continue 12 Years, and you would know how many Years purchase it is worth in present Money, look in the Table for Twelve Years of a Lease to the left Hand, and against the same you shall find 8, 4, 6, which sheweth that such a Lease is worth 8 Years, 4 Months, and 6 Tenth parts of a Months Pur- chase.			
Years of a Lease.	Years.	Months.	10th parts.
1	0	11	0
2	1	9	9
3	2	8	1
4	3	5	9
5	4	2	5
6	4	11	1
7	5	7	0
8	6	2	7
9	6	9	9
10	7	4	3
11	7	10	7
12	8	4	6
13	8	10	3
14	9	3	6
15	9	8	5
16	10	1	3

#### AGAIN:

If you are to take or buy the Reversion of any Lease or Annuity, work thus; Suppose the Lease to be Thirty Years in all, you find in the Second Table and Right Hand against Thirty Years, 9 Months, and 2 Tenth Parts of a Months Purchase; this it's were worth were it in present Possession. But suppose there be a Lease of five Years (more or less) before you commence, look in the Table against the five Years, and there you find four Years, two Months, and 5 Tenth parts of a Months purchase. Take this out of the Sum against Thirty, which is 13, 9, 2, the remainder is, 9, 6, 7, which is 9 Years, 6 Months, and 7 Tenth Parts of a Month; and so much is the Reversion after five Years worth, the Remainder of Thirty Years.

This is Useful and very Easy.

S A U N D E R, 1700.

## The Second Part.

Containing the Eclipses ; the Suns Quarterly Ingresses, the Southing of the seven Stars for every 5th. day of this Year : With directions for finding the Rising, Southing, and Setting of several Fixed Stars ; Also Rules and Tables for the measuring of Board, Glass, Pavements, or other Superficial measure ; as also to Measure Timber ; And other things worth Observation.

### The Characters of the Twelve Signs.

♈ Aries, ♉ Taurus, ♊ Gemini, ♋ Cancer, ♌ Leo, ♍ Virgo, ♎ Libra, ♏ Scorpio, ♐ Sagittary, ♑ Capricorn, ♒ Aquarius, ♓ Pisces.

The Characters of the Planets, with the Dragons Head and Tail, ♄ Saturn, ♃ Jupiter, ♂ Mars, ☉ Sol, ♀ Venus, ☿ Mercury, ☾ Moon, ♀ Dragons Head, ☿ Dragons Tail.

### The Aspects.

♊ Conjunction, \* Sextile, ☐ Quartile, △ Trine, ♂ Opposition

### A Brief Chronology of Memorable things, to this Year, 1700.

The Creation of the World	5648
Noahs Flood	3993
The destruction of Sodom and Gomorrah	3602
The destruction of Troy	2882
Brute entred this Island	2807
The Building of London	2807
The Building of York	2689
The Building of Leicester	2643
A	The

	The building of <i>Canterbury</i>	2592
	The building of <i>Stamford</i>	2563
	The building of <i>Rome</i>	2452
	The destruction of <i>Jerusalem</i> by <i>T. Vesp.</i>	1613
	<i>England</i> first received the Christian Faith	1520
	The Tower of <i>London</i> built	1135
	Duke <i>William</i> conquered <i>England</i>	634
	<i>Westminster</i> Hall was built	601
	The Bible divided into Chapters	505
	The Invention of Guns	322
	The Art of Printing	260
	<i>St. Pauls</i> Steeple fired by Lightning	139
	New Star in <i>Cassiopeia</i>	127
	A great Snow fell <i>Feb. 4.</i>	122
	<i>Tilbury</i> Camp on <i>St. James's</i> day	112
	A Plague in <i>London</i> , whereof dyed 30598	96
	Gunpowder Treason, <i>November 5.</i>	95
	A great Snow, and <i>Smithfield</i> paved	83
Space	A great Plague in <i>London</i> , whereof dyed 35418	75
	The Long Parliament began, <i>November 3.</i>	60
	King <i>Charles</i> the First was Murdered	52
	Two Comets appeared in <i>December</i> and <i>March</i>	36
	The doleful Plague that followd them	35
	<i>London</i> was burnt, <i>September 2, 3, 4, 5</i>	34
	The last great Snow	26
	The wonderful Comet in <i>December</i>	20
	A Comet in <i>August</i>	18
	The terrible Fire in <i>Wapping</i> , <i>November 19.</i>	18
	A great Earthquake, <i>October</i> the 6th	17
	The last great Frost	16
	The Rebellion in the <i>West</i>	15
	The seven Bishops sent to the Tower, <i>June</i>	12
	The Prince of <i>Orange</i> Landed, <i>November 5.</i>	12
	King <i>William</i> went to <i>Ireland</i> with an Army, <i>June</i>	10
	The <i>French</i> Fleet beaten by the <i>English</i> and <i>Dutch</i> , &c.	8
	Our Most Gracious Queen <i>Mary</i> Dyed, <i>Dec. 28.</i>	6
	The Horrid Conspiracy to Assassinate His Majesty King <i>William</i> , and to bring in the <i>French</i> , was happily disc.	4



# SAUNDER, 1700.

Of the Eclipses this Year 1700.

FOUR times will the Luminaries of Heaven be Eclipsed in respect of the Inhabitants of this Terraqueous Planet whereon we live; viz Twice the Sun, and twice the Moon. They happen in the following order.

The first is an Eclipse of the Sun, the 8th day of February, at midnight, and therefore not visible unto us: It will appear to our Perie i, and Northward from thence, and greatest within the Artick Circle, where the Sun will appear Eclipsed near 4 digits.

The second is an Eclipse of the Moon upon the 23th day of February, a little after 7 of the Clock In the Morning. It is a great Eclipse, and the former part thereof may be seen by us: But the Moon setting before the middle, the latter part therefore cannot be seen; yet she will set totally Eclipsed, having been so near half an hour before her setting. The Calculation thereof followeth.

February the 22th day, at 19 Hou. 21 min. 42 sec. P. M.  
deg. ' "

The Place of the Sun is	_____	X	14	49	08
The place of the Moon is	_____	m	14	49	08
Argument of Latitude	_____		0	58	36
True Latitude of the Moon North ascending	_____		05	07	
Reduction substract	_____		00	15	
Time of Reduction added	_____		00	26	
Correct Time of Opposition, Febr. 22th at 19 Hours	_____		22	08	
Equation of Time substract	_____		12	08	
Apparent Time at London, at	_____	19 Hours	10	00	
Difference of Meridians substract	_____		04	00	
Apparent Time at Leicester, at	_____	19 Hours	06	00	
Semidiameter of the Moon	_____		16	14	
Semidiameter of the Earth's shadow	_____		44	10	
Sum of the Semidiameters	_____		60	24	
Moon's Latitude substract	_____		05	07	
Rems parts deficient	_____		55	17	
Digits Eclipsed are	_____	20 digits	26	00	
Minutes of Incidence and half transience	_____		60	11	
Time of Incid. and half transience in the shad. 1 Hour	_____		44	40	

Minutes of half tarriance in the Shadow	32	57
Time of half tarriance in the shadow	47	46
Continuance of total darkness	1 Hour	35 32
Total duration of the Eclipse	3 Hours	29 20
Interval of the Opposition and greatest Obscuration	00	45
Beginning of the Eclipse <i>Feb. 22. Afternoon</i>	17 Hours	20 35
Or <i>Febr. 23. in the morning</i> at	5	20 35
The beginning of total darkness at	6	17 29
The <i>Moon</i> sets at	6	32 00
The middle at	7	05 15
The end of total darkness at	7	53 01
The full end of the Eclipse at	8	49 55

Moon's Latitude at the beginning, South descending	00	22
Moon's Latitude at the end, North ascending	10	42

A Type of the Eclipse.



In this Figure, the great Circle A, B, C, D, representeth the Shadow of the Earth which Eclipseth the *Moon*; the Line E E the Ecliprick which the center of the shadow always observeth; the Line L L the way of the *Moon* in her Orb; the utmost *Moon* to the Right-hand sheweth the *Moon's* place at the beginning of the Eclipse; the first within the shadow, and to the Right-hand, is the *Moon's* place at the beginning of total darkness; the middlemost, her place at the middle of the Eclipse; the utmost within the shadow, to the Left-hand, is the *Moon's* place at the end of total

total darkness; the other her place at the end of the Eclipse. This Eclipse will more of it be seen in *Ireland* than here, and in the Western Island, viz the *Azores*, the *Caribbee* Islands, and most part of *America* it may be seen from the beginning to the ending.

The third Eclipse is of the *Sun*, *August* the 3d, about 5 of the Clock in the Afternoon, but not visible to us by Reason that the *Moon's* Parallax and Latitude are both South; it will be visible in the most Southern parts of *America*, about the Straits of *Magellanicus*, and Southward from thence, towards the *Antarctic Circle* it will appear about half Eclipsed.

The fourth and last Eclipse is of the *Moon*, the 18th day of *August*; it happens about our 2 of the Clock in the Afternoon, and therefore not visible unto us. It will be a great Eclipse, near as great as that in *February*, and will appear to the most part of *Asia*. In the North-East part it will happen near their Meridian, near the Meridian of *Japan*: It will appear also to all the North-West part of *America*, the North of *California*, the Land of *Jesso*, &c.

These Eclipses of the *Sun* being in themselves small, and not visible in these parts, can signifie little, or nothing to us; but those of the *Moon* are both very great, and one of them visible to us in part. Of Eclipses of the *Moon* Astrologers say, That, in *ix* Decano secundo in consultores scribas, & hujusmodi hominum foret genus perniciem parat; & is  $\times$  denario primo, sacerdotibus, & iudicibus, antilibusq; Luctum & maiorem affert. Thus much of Eclipses.

Of the Four Quarters of the Year, and first of the Spring.

THE Spring Quarter this Year (according to the *Caroline Tables*) begins the 9th day of *March*, at 1 hour, 36 min. Afternoon, in the Meridian of *London*; and 4 min. sooner at *Leicester*; the *Sun* then entering *Aries*, (or the *Earth* *Libra*) maketh equal day and night to all the *Earth*, (except under the *Poles*). I shall not pretend here to set a Figure, or erect a Scheme, seeing there is still so much difference amongst *Astronomers* about the time: And if the *Caroline Tables* be the nearest the truth of any extant amongst us (as I am apt to think they are) what then hath all the former Experience been, which hath for so long time been made, and so much boasted of? Hath it been any other than building Houses upon the

Sand?

Said? Who can say that any Scheme formerly erected, at the Sun's entrance into *Aries*, was followed with such and such effects? When as for ought he knoweth, the Sun might enter *Aries* an hour or more, sooner or later, than the supposed time; and that will alter the Figure sufficiently to spoil all pretence to any certain Experience. But indeed we have some great pretenders to *Astrology*, that are so off and on, so unsteady and of so weak Judgment, that they know not what to approve of, or disapprove. One while the *British Tables* are the best extant; the *Caroline* are by no means approved of, they are far wide from the matter: But then comes the *Anglicane*; I, these are the *Tables*; these I approve: But pray look well into them; are not these the *Caroline*, that before were disapproved of? Yes certainly, the best part, and almost all, both Motions and Equations, are entirely *Caroline*; the middle Motions and Heliocentrick Longitude of  $\beta$ ,  $\gamma$ ,  $\delta$ ,  $\epsilon$  and  $\zeta$ , are all entirely *Caroline*; so is the middle Motion and Equation of the Earth; but then comes indeed a new Table of the Earth's Heliocentrick, or the Sun's Geocentrick Place, contrived for the better agreeing with a false Supposition, of the Sun's greatest Horizontal Parallax, being 2 min. 24 sec.; whereby instead of mending, he hath spoiled the Tables. For had he here, as in the rest, strictly followed Mr. *Street*, then with his additional Tables, of the Parallax of the Orbs of the Planets, and their Latitude at the Earth, his Tables would certainly have been, for expedition and exactness, the best extant. I do not this out of any Prejudice to the Author, but must give him my Thanks for his Pains herein; only I could wish he had more strictly followed Mr. *Street*, in the Sun's place also. By what hath been said above, however, you may perceive the profound Judgment, and discerning Faculties of some of our great Pretenders. But no more of this at present.

Now for other Reasons, (than a Figure of the Heavens at the Ingress) I shall tell you, that, as there is a vicissitude in Years, as to great Wet, great Droughts, great Frosts, warm Winters, cool Summers, &c. So in Years, as to healthful and unhealthful; we have had many of late, cool and wet Summers: we have had now one hot and dry; and possibly another coming on. We have been several Years free from any great Mortality:

lity; I pray God we may still be so: But I fear an unhealthful Year, especially in very populous places. I remember a great *Astrologer*, one Year in his Vernal Figure, finding *Jupiter* Lord of the Revolution, and in good position, concluded the Year would be generally healthful: But there happened the greatest Mortality that hath been in this Age. I, without a Figure, do tell you, that I fear a Mortality, or at least a very unhealthful Year. I heartily wish, this also may prove a mistake in me. I shall conclude this Quarter as usually: 'Tis now good to use such Meats or Medicines as purge and sweeten the Blood. In *April* you may freely bleed, bathe or purge, if there be occasion. In *May* it is wholesome to drink Clarified Whey. Now Drink but little Wine; and forbear such Meats as are of a hot Quality.

*Of Summer.*

IT begins *June* 10. at 2 ho. 44 min. Afternoon, the *Sun* then entering *Cancer*, maketh the longest Day and shortest Night to all on this side the Equator. Now eat moderately of such Meats as are easily concocted. In this Quarter beware of such Meats as ingender Melancholly.

*Of Autumn.*

THIS Quarter begins *September* 12. 24 min. past 4 in the morning, the *Sun* then entering *Libra*, doth again make equal Day and Night. Now Salt or powdered Meats may be eaten without prejudice. Roasted meats, and Wild Fowl, are now held to be very good. In this Quarter beware of taking Cold.

*Of Winter.*

IT begins *December* the 10th, 52 min. after 3 at Night, the *Sun* then entering *Capricorn*, maketh our shortest Day and longest Night. It is now good to keep warm, and to eat such meats as are of a hot Quality. In *February* you may take Pills to purge the Head. Bathe or Bleed, if there be occasion.

To find the Rising, Southing and Setting, of several fixed Stars hereafter mentioned.

IN the Tables following you have first the seven Stars Southing for every fifth day: in the second Table is set the difference betwixt the Southing of those Stars therein named, and the seven Stars, which being added to the time of the seven Stars Southing,

giveth theirs. In the same Table is also set their semidiurnal Arches thereby to find the rising and setting of the said Stars. Suppose it is required to know what time the great Dog-star called *Syrus* will be South the 11th. of *February*? I then find the Seven Stars South at 3 ho. 10 min. to which I add 3 ho. 2 min. the difference annexed to the great Dog-Star, and it makes 8 ho. 12 min. being the time of its Southing the said 11th. of *February*. If to the Southing you add the Semidiurnal Arch 4 ho. 31 min. it gives the time of its setting at 12 ho. 43 min. but if you substract the Semi-diurnal Arch from the Southing it leaveth the time of its Rising. The like may be done by any other of the said Stars.

For the better distinction of the several sizes of Stars they are divided into six several magnitudes, The biggest and brightest Stars are called Stars of the first Magnitude. Those one size inferior in light, and bigness are called Stars of the second Magnitude, &c. Now for the better knowing the Stars hereafter mentioned, Note, that the great Dog-star, Lions Heart, Virgins Spike, and the bright star of *Lyra*, are accounted stars of the first magnitude, so are also *Aldebaran* and *Arcturus*, but they are Red stars, much of the colour of *Mars*, all the rest in the Table are of the second magnitude, except the Northern and Southern *Aff*, which are small Stars being of the fourth magnitude.

A Table shewing the Hour and minute of the Seven Stars coming to South, every 5th day of this year, 1699.

Moneths	Dayes of the Moneth.							
	1	6	11	16	21	26		
	H. M. H.	M. H.	M. H.	M. H.	M. H.	M. H.	M. H.	M.
January	7 A 57	7 A 36	7 A 14	6 A 53	6 A 32	6 A 12		
February	5 A 49	5 A 29	5 A 10	4 A 51	4 A 32	4 A 14		
March	4 A 40	4 A 21	4 A 13	4 A 23	4 A 2	4 A 28		
April	2 A 31	2 A 18	2 A 10	2 A 11	2 A 2	2 A 35		
May	0 A 14	11 M 34	11 M 34	11 M 14	10 M 53	10 M 33		
June	10 M 8	9 A 47	9 A 26	9 A 6	8 A 45	8 A 25		
July	8 M 57	7 A 45	7 A 24	7 A 4	6 A 45	6 A 25		
August	6 M 35	5 A 45	5 A 26	5 A 8	4 A 47	4 A 3		
September	4 M 10	3 A 52	3 A 34	3 A 17	3 A 0	3 A 4		
October	2 M 22	2 A 31	2 A 44	2 A 25	2 A 1	2 A 5		
November	0 M 2	11 A 2	11 A 39	11 A 16	10 A 54	10 A 32		
December	10 A 11	9 A 49	9 A 26	8 A 4	7 A 41	7 A 18		



# SAUNDER, 1700.

A Table shewing the difference In hours and minutes between the coming to south of several fixed stars, and the seven stars, as also their semi-diurnal Arches thereby to find their rising and setting.

Names of the Stars.	Diff.		semi-d.	Arches		Names of the Stars.	Diff.		semi-d.	Arches
	South.						South.			
	h.	m.	h.	m.			h.	m.	h.	m.
Aldebaran B. eye	0	49	7	28		Lions heart, Eafil.	6	23	7	13
ad. in Orions Girdle	1	51	5	54		Virgins Spike	9	40	5	9
Gr. Dog. Sirius	3	2	4	31		Arcturus	10	32	8	c
Castor 1st. head II	3	46	9	47		South ballance	11	5	4	40
Lit. Dog. Procyon	3	54	6	32		North ballance	11	31	5	16
Pollox, 2d. head II	3	57	9	4		Northern Crown	11	52	8	55
Northern Afl.	4	56	8	12		bright * Lyræ	14	57	feet not	
Southern Afl.	4	58	7	49		bright * Vulturis	16	66	42	

Here followeth some few Rules, and Tables for the mensuration of Superficies and Solids.

For the Mensuration of superficial or flat measures, such as Board, Glass, Pavement, Hangings, &c. it will be necessary to know how to measure any plain superficial figure, as the Square, Long-square, or Parellelogram, Triangle, Circle, parts of the Circle, &c. examples of all which do here follow.

## I. How to measure a Square.

Let there be a square floor, or pavement, the sides whereof are each of them 5 feet 6 inches, and 'tis required to know how many square, or superficial feet are contained therein. First (a good plain way to avoid Fractions will be to) Reduce the whole side into inches, 5 feet, 6 inches, being 66 inches, multiply 66 by 66, and the Product will be 4356, the superficial content in inches; then divide 4356 by 144 (the square inches in one foot) and the quotient will be 30 feet, and 36 inches remaining, which is the number of inches in one quarter of a foot; so that in such a square is contained 30 feet and one quarter. See the Margin.

$$\begin{array}{r}
 66 \\
 66 \\
 \hline
 396 \\
 396 \\
 \hline
 4356 \\
 4356 \\
 144 \\
 \hline
 30 \\
 432 \\
 36
 \end{array}$$

## II. T.

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## II. To measure the Long-square or Parallelogram.

Suppose there be a Pavement whose length is 72 feet, and breadth 12 feet, how many feet is contained therein.

Multiply 72 in length, by 12 the breadth, and the product will be 864, and so many superficial feet are contained in that Pavement.

## III. To Measure a Long Superficies, which is broader at one end than at the other.

Let there be a superficies whose length is 72 inches, the breadth of the greater end 50 inches, and the breadth of the lesser end 34 inches, and let it be required to know how many feet are contained therein. First, add the breadths of both the ends together, which maketh 84, take half thereof, which is 42, which being multiplyed by 72 the length, the product will be 3024 the content in inches, which being divided by 144 (the inches in one foot) the Quotient will be 21 feet, and nothing remaining, so that there is exactly 21 feet in such a superficies.

## IV. How to Measure Triangles.

All Right lined Triangles are measured by this general Rule.

Multiply half the length of the Base by the whole Perpendicular. Or, the whole length of the Base by half of the Perpendicular.

Suppose the Base of a Triangle be 44, and the Perpendicular 26, what is the Content.

Multiply 44 (the Base) by 13, (half the perpendicular) the Product will be 572 : Or 22 (half the Base) being multiplyed by 26, (the whole perpendicular) the Product will be 572, as before, which is the Content of such a Triangle.

V. All Trapezias, or Figures with four unequal sides ; also Multangular, or many sided irregular Figures, must be divided into Triangles, and those Triangles measured as before is taught, and their sums added together will give the content of such irregular Figures. And note, that the least number of Triangles, into which any plot or irregular figure may be reduced, will be less by two than the number of the sides of such irregular figures.

## VI. How to measure Circles, and parts of Circles.

The Diameter of every Circle hath such proportion to the circumference of the same Circle as 7 hath to 22. Therefore

the

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The Diameter being given to find the circumference, you must multiply the Diameter by 22, and the product being divided by 7, the Quotient will be the circumference. Thus, suppose the Diameter of a Circle be 14, multiply 14 by 22, the product will be 308, which being divided by 7, the Quotient is 44, being the circumference of that Circle whose Diameter is 14.

*Having the Circumference to find the Diameter.*

Multiply the circumference given by 7, the product divide by 22, and the Quotient will be the Diameter. Let the circumference of a circle be 60, multiply 60 by 7 the product will be 420, which being divided by 22, the Quotient will be 19  $\frac{1}{2}$  and  $\frac{2}{3}$  or  $\frac{11}{3}$  which is the Diameter.

To find the Area or Superficial content of a Circle. Multiply half the circumference by half the Diameter, the product is the content of the Circle: Thus, Let the circumference be 60, the half whereof is 30, and the Diameter 19  $\frac{1}{2}$  the half whereof is 9  $\frac{1}{2}$ , by which multiplying 30, the product will be 286  $\frac{1}{2}$  which is the superficial content of such a Circle; or,

By the Diameter to find the Area of the circle. First, square the Diameter, multiply the square by 11, and divide the product by 14, the Quotient is the superficial content of the circle. Let the Diameter be as above 19  $\frac{1}{2}$  the square whereof is 380  $\frac{1}{4}$ , this multiplied by 11, produceth 4009  $\frac{1}{4}$  which being divided by 14 the Quotient is 286  $\frac{1}{2}$  as above, being the superficial content of such a circle.

To measure the superficial content of half the circle, the quarter of a circle, or of any other section of a circle, more or less, having the semidiameter given.

Multiply half of the compass thereof by the semidiameter of the circle, so shall you have the content.

*Of the Mensuration of Solids.*

A Plain or Superficial Measure consisteth of two dimensions, namely, length and breadth; so Solid measure consisteth of three dimensions, namely, length, breadth and thickness.

To measure any kind of Timber, either Square, Triangular, Round, or of any other Fashion, provided it be straight and equal all along.

Cast up the superficial Content at the end thereof, by the Rules before going, for the finding the Content of the Square, Triangle, Circle, &c. which Superficial Content being multiplied

plied by the length of the Piece, will give you the Solid Content thereof. *Example.* Let there be a piece of Timber, (or other solid matter) whose breadth is 18 inches, its depth 13 inches, and length 142 inches, to find how many solid feet contained therein. First, multiply the breadth 18 by the depth 13, the product is 234, being the superficial inches at the end of the piece. Secondly, multiply this 234 by 142 the length of the piece, and the product will be 33228, the solid Content in inches. Thirdly, divide 33228 by 1728, (being the number of cubical inches in one solid foot) and the quotient will be 19, the 396 inches remaining, which is 19 solid feet, and almost a quarter of a foot, and so much is the solid content of such a piece.

A 2d Example of a round piece. Let there be a round piece of Timber whose compass is 60 inches, and the length 20 feet, (or 240 inches) and let it be required to find the solid content thereof. First, by the help of the circumference 60, find the Diameter (as before is taught) by multiplying 60 by 7, and dividing the product thereof by 22, so shall you find the Diameter to be 19. Then by either of the ways before taught, viz. by multiplying the circumference by  $\frac{1}{2}$  the Diameter; or by (squaring, or) multiplying the Diameter in it self, and multiplying that square by  $\frac{1}{11}$ , and dividing the product by 14, the superficial content of the end of such a piece will be found to be 286  $\frac{1}{2}$  inches. Now multiply this 286  $\frac{1}{2}$  by the length of the piece 240, and the product will be 68727  $\frac{1}{2}$  the content in inches, which being divided by 1728, the quotient will be 39 feet, and  $\frac{1}{2}$  of a foot, and 39  $\frac{1}{2}$  inches remaining, which is the solid content of such a piece of Timber. But had this piece of Timber been measured by that egregiously false way of taking  $\frac{1}{2}$  part of the Girt for the side of the square equal, it would have been found to be but 31 feet and  $\frac{1}{2}$  of a foot, which is above  $\frac{1}{2}$  part less than the truth, it being 39 feet, & above  $\frac{1}{2}$  part.

In behalf of that erroneous way many do plead, that in round Timber there is great loss in chipping to bring it near a square, therefore that way may be allowed; but this is very unequal; in great Timber there being little loss, in small Timber much, let therefore the quality be considered, rather than make such unequal amends by a false quantity.

*Of the Mensuration of Tapering Timber, either round or squared, such as Frustums of Cones and Pyramids.*

First find the superficial Area of each end of the piece, and multiply the one Area by the other. Secondly, out of the

the product of the two Area's, extract the Square Root. Thirdly, add this Root and the two Area's all into one sum. Lastly, multiply this sum by one third part of the length of the piece, and that product shall give you the Content.

Let there be a piece of Timber whose Circumference at the greater end is 66 inches, at the lesser end 44 inches, and the length 20 feet, and it is required to find how many solid feet are contained therein. First, the Area of the Circle at the greater end (by multiplying half the Circumference 33 by half the Diameter  $10\frac{1}{2}$ ) will be found to be  $346\frac{1}{2}$ , and the Area of the Circle at the lesser end will be 154: These multiplied together do produce 53361. Secondly, out of this product extract the Square Root, which is 231, (for 231 being multiplied by itself produceth 53361). Thirdly, add the two Areas, and the Square Root 231 together, and the sum of them will be 731 $\frac{1}{2}$ . Lastly, multiply 731 $\frac{1}{2}$  by 20 inches, (one third part of the length) and the product will be 58520, being the solid inches contained therein, which inches being divided by 1728, the Quotient will be 33 feet, and 1496 inches remaining, which is 3 quarters of a foot, and almost half a quarter.

*To find the Content of Tapering Timber, other ways than is taught above.*

These pieces being parts of Cones or Pyramids, their Contents may be found by seeking the Content of the whole Cone or Pyramid, (of which they are part) and the Content of that part which is wanting, for that part being subtracted from the whole, the remainder must be the Content of the part required.

Now the way to find the content of a Cone or Pyramid is, to multiply the superficial Content of the Base by one third part of the length; and to find the length of the top part of a Cone or Pyramid which is wanting; say thus, As the difference of the sides, or Diameters of the two ends, to the length between them; so is the side, or Diameter of the greater end, to the whole length. *Example*, of the piece before mentioned, whose greater end is 66 inches about, and the lesser end 44; hence the Diameter of the greater end will be 21, and the Diameter of the lesser end will be 14, and their difference is 7, therefore say, If 7 give 20 feet what will 21 give? Answer, 60 feet; being the whole length of the Cone: Now the superficial content

content of the Base of this Cone, (being  $346\frac{1}{2}$  inches) multiplied by 240 inches, (one third part of the length of the whole Cone) produceth 83160 inches, the content of the whole Cone. And the superficial content of the lesser end, (which is the Base, of the top (or wanting) part of the Cone) which is 160, being multiplied by 160, (one third part of the length of the top (or wanting) part) produceth 24640 inches, the content of the wanting part, which being subtracted from 83160, (the content of the whole Cone) the remainder is 58520 inches, the content of the part required, being the same as before.

Here followeth Tables ready calculated, for the Measuring of Squared or Round Timber, which is supposed to be equal along: Their use is thus, seek the side of the Squared, or compass of the Round Timber, in the first, third or fifth column of the Tables, and against it, in the next column you have the length of a solid foot. Thus, the side of a squared piece of Timber being 20 inches, the length of a solid foot will be 4 inches and 3 tenth parts of an inch: And the compass of a round piece, being 80 inches the length of a solid foot will be found to be 3 inches, and 39 hundredth parts of an inch.

A Table, shewing how much length will make a Solid foot of any Square Stone or Timber: The side of the Square being given in inches, from one inch to 26 inches square.

Side of the Square.	Length of a solid foot.	Side of the square.	Length of a solid foot.	Side of the Square.	Length of a solid foot.
Inch.	Inch. 10th.	Inch.	Inch. 10th.	Inch.	Inch. 10th.
1	44 0 0	13	10 2	25	2 8
2	36 0 0	14	8 8	26	2 6
3	16 0 0	15	7 6	27	2 3
4	9 0 0	16	6 7	28	2 2
5	5 9 2	17	5 9	29	2 1
6	4 0 0	18	5 3	30	1 9
7	2 11 2	19	4 8	31	1 8
8	2 3 0	20	4 3	32	1 7
9	1 9 3	21	3 9	33	1 6
10	1 5 3	22	3 5	34	1 5
11	1 2 3	23	3 3	35	1 4
12	1 0 0	24	2 0	36	1 2



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Table shewing how many inches in length will make a foot solid, of any round piece of Timber or Stone, the Girt being known, from 12 inches compass to 100.

Com. len. of a foot			Com. len. of a foot			Com. len. of a foot		
Inch.	Inch.	100 p.	Inch.	Inch.	100 p.	Inch.	Inch.	100 p.
11	179	46	41	12	92	71	4	31
12	150	80	42	12	31	72	4	20
13	128	49	43	11	74	73	4	08
14	110	79	44	11	31	74	3	97
15	94	31	45	10	72	75	3	86
16	84	82	46	10	26	76	3	76
17	75	14	47	9	83	77	3	66
18	67	02	48	9	42	78	3	57
19	60	15	49	9	04	79	3	48
20	54	29	50	8	69	80	3	39
21	49	23	51	8	35	81	3	31
22	44	86	52	8	03	82	3	23
23	40	90	53	7	73	83	3	15
24	37	69	54	7	42	84	3	08
25	34	74	55	7	18	85	3	01
26	32	12	56	6	92	86	2	94
27	29	79	57	6	68	87	2	87
28	27	70	58	6	45	88	2	80
29	25	82	59	6	24	89	2	74
30	24	13	60	6	03	90	2	68
31	22	60	61	5	84	91	2	62
32	21	21	62	5	65	92	2	57
33	19	92	63	5	47	93	2	51
34	18	78	64	5	30	94	2	46
35	17	74	65	5	14	95	2	41
36	16	76	66	4	98	96	2	36
37	15	86	67	4	84	97	2	31
38	15	04	68	4	70	98	2	26
39	14	28	69	4	56	99	2	22
40	13	57	70	4	43	100	2	17

Ad.

## Advertisements.

**M**r. Robert Batemans true Spirits of Scorvy Grass, both Golden and Plain, being famous for their Vertues, are truly prepared only by me Martha Smith sole E. & A. to the said Mr. Bateman, to whom only he communicated his Receipt for preparing the same, which are to be sold at my House over against the Sun in Great Canoe Lane near Doctors Commons, and at other Places, as in my Printed Bills. Price each Bottle One Shilling.

And whereas one Stephen Terry pretends to make the said Mr. Batemans Spirits, he is only an impostor and a pretender, and his Spirits are Counterfeits. Beware of them.

The said Martha Smith sells also the grand Balsamick, or Health preserving Pills approved of by the most eminent Physicians of England, to be one of the most safe and pleasant Purgers in the World. Their Vertues are set down in a Paper given with them. Price One Shilling the Box.

**T**he Collection for improvement of Husbandry and Trade, by J. Houghton, F.R.S. is now Published weekly, and sold at a Penny each, by J. Nut, near Stationer-Hall, and most of the Book-sellers in England; Where also may be had the Quarto Volumes finished in 1683. The Sixpenny sheets of Acres, Houses, Tax, &c. The several Folio Volumes, and the subsequent sheets.

**W**alter Lloyd, at the Ancient Fowler in Tower-street, London, sells the finest, strongest, glazed, or not glazed, Gun-Powder; which by the Experience of several Persons of Quality and others, hath considerably out-done any other Gun-Powder yet made; the said strong Gun-Powder, and all sorts of Gun-Powder, is sold by him at very reasonable Rates.

**I**f any Gentleman or other Person would have his Land surveyed, or any Building or Edifice measured, either for Bricklayers, Carpenters, Masons, Plasterers, &c. The Author of this Almanack will perform the same, either for Master or Workmen: And if any Person would have about his House or Garden, any Sun-Dial, either Direct, Declining, Inclining, Reclining, Concave, Convex or Reflective. He will make or prepare for them such as they shall desire.

From Letchworth near Melton-Mowbray, in the  
County of Leicester, Octob. 7. 1699.

**T**here is lately brought from Chili a province in America, a most excellent Natural Balsam, found by several eminent persons to excel that of Peru and Tolu, in curing of divers diseases, as it hath given demonstration: 'tis a remedy that no man under the Sun can compose, being a most Odoriferous, and Natural Balsam. It cures most diseases in humane bodies, particularly helps all pains coming from Cold; chiefly pains in the stomach, want of appetite: Corroberating and strengthening the whole Body: 'tis a wonderful Remedy for all inward sores, bruises, or ulcers of the lungs, reins, bladder, or womb, &c. It helps shortness of breath, cough, consumption, or, wheezings: 'tis good in most diseases of the head, as falling-sickness, apoplexy, palsey, trembling, convulsions, head-ach and giddiness of the head; and strengthens the brain and nerves: it kills worms, and helps the stone, and is a good provoker of Urine, and brings away the sand and gravel, which oftentimes obstructs the Urine: it helps all fluxes of the belly, &c. It is only to be had of *Ben. Tr. v.* at the three Bibles on London-bridge, at 1s. 6 d. the ounce. The bottles are sealed with the Balsam-tree.

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